

LAMP I R A N



LAMPIRAN A

Perhitungan iterasi setiap Dapil

ITERASI 1:

DAPIL 1.

$$V = \begin{bmatrix} 1,19 \\ 1 \\ 0,999 \\ 1 \\ 1,001 \end{bmatrix} P \quad \begin{matrix} 0,188 & 0,188 & 0,313 & 0,188 & 0,125 \\ 0,158 & 0,474 & 0,263 & 0,000 & 0,105 \\ \text{Dapil I} & 0,214 & 0,214 & 0,268 & 0,071 & 0,214 & 0,000 \\ 0,200 & 0,300 & 0,400 & 0,100 \\ 0,000 & 0,273 & 0,182 & 0,091 & 0,455 \\ -0,158 & W & -0,526 \end{matrix}$$

State 1

$$1,19 + 0,188 \times -0,158 + 0,188 \times 0,526 + 0,313 \times -0,263 + 0,188 \times 0 + 0,125 \times -0,105 = 1,16374$$

State 2

$$1 + 0,158 \times -0,158 + 0,474 \times 0,526 + 0,263 \times -0,263 + 0,00 \times 0 + 0,105 \times 0,105 = 1,144166$$

State 3

$$0,999 + 0,214 \times -0,158 + 0,214 \times 0,526 + 0,268 \times -0,263 + 0,071 \times 0 + 0,214 \times -0,105 = 0,984798$$

State 4

$$1 + 0,000 \times -0,158 + 0,200 \times 0,526 + 0,300 \times -0,263 + 0,400 \times 0 + 0,100 \times 0,105 = 1,0158$$

State 5

$$1,001 + 0,000 \times -0,158 + 0,526 + 0,182 \times 0,091 \times 0 + 0,455 \times -0,105 = 1,048957$$

DAPIL 11

$$\begin{bmatrix} 1,7270,091 \\ 1,000 & 0,000 & 0,000 \\ 0,333 & 0,000 & 0,250 \\ 0,182 \end{bmatrix} = \begin{bmatrix} 0,000 & 0,182 & 0,545 & 0,182 & 10,000 \\ 0,000 & v & 1,333 & \text{Dapil 11} & 0,250 & 0,167 \\ 1,4560,091 & 0,273 & 0,000 & 0,455 \end{bmatrix}$$

1,5290,000 0,000 0,294 0,235 0,471

f(1)- 1,6977 f(2) -0 (3) z 1,5602 f(4) 0,5983

1,1329

State I

$$+ 0,091 \times 1,6977 + 0,000 \times 0 + 0,182 \times 1,5602 + 0,545 \times 0,5983 + \\ \times 1,1329 = 2,697708 \quad 0,182 \times$$

State 2

$$1 + 0,000 \times 1,6977 + 1,000 \times 0 + 0,000 \times 1,5602 + 0,000 \times 0,5983 + 0,000 \times 1,1329 - 1$$

State 3

$$1,333 + 0,250 \times 1,6977 + 0,167 \times 0 + 0,333 \times 1,5602 + 0,000 \times 0,5983 + \\ 0,250 \times 1,1329 = 2,560197$$

State 4

$$+ 0,091 \times 1,6977 + 0,273 \times 0 + 0,000 \times 1,5602 + 0,455 \times 0,5983 + \\ 0,182 \times 1,1329 = 2,088905$$

State 5

$$\times 1,6977 + 0,000 \times 0 + 0,294 \times 1,5602 + 0,235 \times 0,5983 + \\ 0,471 \times$$

DAPIL 111

$$V = \begin{bmatrix} 1 \\ 1 \\ 1 \\ 0,999 \\ 1 \end{bmatrix} F = \begin{bmatrix} 0,071 & 0,000 & 0,643 & 0,286 & 0,000 \\ 0,158 & 0,526 & 0,263 & 0,000 & 0,053 \\ \text{Dapil III} & 0,333 & 0,167 & 0,500 & 0,000 \\ 0,000 & 0,000 & 0,071 & 0,214 & 0,714 \\ 0,000 & 0,143 & 0,143 & 0,214 & 0,143 & 0,357 \end{bmatrix}$$

f(1) 0,0021 f(2) -0,0029 0,0028 (4) -0, f(5) 0,0023

State I

$$1 + 0,071 \times 0,0021 + 0,000 \times 0,0029 + 0,643 \times 0,0028 + 0,286 \times 0 + 0,000 \times 0,0023 \\ 1,00195$$

State 2

$$1 + 0,158 \times 0,0021 + 0,526 \times 0,0029 + 0,263 \times 0,0028 + 0,000 \times 0 + 0,053 \times \\ 0,0023 \quad 1,002716$$

State 3

$$1 + 0,333 \times 0,0021 + 0,167 \times 0,0029 + 0,500 \times 0,0028 \quad 0,000 \times 0 + 0,000 \times 0,0023 \\ 1,002584$$

State 4

$$0,999+0,000 \times 0,0021 +0,071 \times 0,0029 +0,214 \times 0,0028 +0,714 \times 0+ 0,000 \times 0,0023$$

$$= 0,999805$$

state 5

$$1 +0,143 \times 0,0021 +0,143 \times 0,0029+0,214 \times 0,0028 +0,143 \times 0+0,357 \times 0,0023$$

$$= 1,002135$$

DAPIL IV

$$\begin{bmatrix} 1,25 & 0,364 & 0,000 & 0,386 & 0,250 & 0,000 & 1 & 0,000 \\ 0,714 & 0,286 & 0,000 & 0,000 & & & & \\ \text{Dapa IV} & = & 0,000 & 0,333 & 0,667 & 0,000 & 0,000 & \\ 1,811 & 0,000 & 0,048 & 0,143 & 0,810 & 0,000 & & \\ 1,091 & & & 0,091 & 0,091 & 0,091 & 0,091 & 0,636 \\ 1,9138 & & & & & & & 1,65 \end{bmatrix}$$

state I

$$1,25 +0,364 \times 1,9138 +0,000 \times 0,141 +0,386 \times 0+0,250 \times 4,0567+0,000$$

$$\times 1,65 = 2,960798$$

state I

$$I +0,000 \times 1,9138 + 0,714 \times 0,141 +0,286 \times 0+0,000 \times 4,0567+0,000 \times$$

$$1,65 = 1,100674$$

state I

$$I +0,000 \times 1,9138 + 0,333 \times 0,141 + 0,667 \times 0+ 0,000 \times 4,0567 + 0,000 \times 1,65 =$$

$$1,046953$$

state I

$$1,811 + 0,000 \times 1,9138 + 0,048 \times 0,141 +0,143 \times 0+ 0,810 \times 4,0567 + 0,000 \times 1,65$$

$$= 5,103695 \text{ state I}$$

$$1,091 + 0,091 \times 1,9138 + 0,091 \times 0,141 + 0,091 \times 0+ 0,091 \times 4,0567 + 0,636 \times 1,65$$

$$= 2,283147$$

DAPIL V

$$\begin{bmatrix} 1,320,200 & 0,000 & 0,280 & 0,320 & 0,200 \\ 0,9990,000 & 0,789 & 0,105 & 0,000 & 0,105 \end{bmatrix}$$

$$f(5) =$$

$1,126$ pDapil $V = 0,063$ $0,250$ $0,563$ $0,125$ $0,000$
 $1,818,091$ $0,000$ $0,000$ $0,818$ $0,091$ $1,714$ $0,000$ $0,000$
 $0,143$ $0,714$ $0,143$

$f(1) = 3,251$ 1 $-O$ $f(3) = 0,9161$ $5,238$ $4,6671$
 state I

$1,32 + 0,200 \times 3,251$ $1 + 0,000 \times o + 0,280 \times 0,9161 + 0,320 \times 5,238 + 0,200 \times$
 $4,6671 = 4,836308$ state 2

$0,999 + 0,000 \times 3,251$ $1 + 0,789 \times o + o, 105 \times 0,9161 + 0,000 \times 5,238 + 0,105 \times$
 $4,6671 = 1,585236$

state 3

$1,126 + 0,063 \times 3,2511 + 0,250 \times o + 0,563 \times 0,9161 + 0, 125 \times 5,238 + 0,000 \times$
 $4,6671 = 2,501334$ state 4

$1,818 + 0,091 \times 3,2511 + 0,000 \times O + 0,000 \times 0,9161 + 0,818 \times 5,238 + 0,091 \times$
 $4,6671 = 6,823$ state 5

$1,714 + 0,000 \times 3,2511 + 0,000 \times O + O, 143 \times 0,9161 + 0,714 \times 5,238 + 0,143 \times$
 $4,6671 = 6,25233$

DAPIL VI

$$v = \begin{bmatrix} 1,571 \\ 1 \\ 1 \\ 2,914 \\ 1,400 \end{bmatrix} P_i = \begin{bmatrix} ,061 & 0,020 & 0,510 & 0,286 & 0,122 \\ 0,000 & 0,833 & 0,167 & 0,000 & 0,000 \\ 0,000 & 0,000 & 1,000 & 0,000 & 0,000 \\ 0,000 & 0,000 & 0,957 & 0,043 & 0,200 \\ 0,200 & 0,200 & 0,200 & 0,200 & 0,200 \end{bmatrix} \text{Dapil VI}$$

$f(1) = 0,3243$ $1,234$ $f(3) = 0,897$ $f(4) =$ $f(5) =$
 $4,21$ $2,21$

state I

$1,571 + 0,061 \times 0,3243 + 0,020 \times 1,234 + 0,510 \times 0,897 + 0,286 \times 4,21 + 0,122 \times 2,21$
 $= 3,546612$ state 2

$1 + 0,000 \times 0,3243 + 0,833 \times 1,234 + 0,167 \times 0,897 + 0,000 \times 4,21 + 0,000 \times 2,21 =$
 $2,177721$ state 3

$1 + 0,000 \times 0,3243 + 0,000 \times 1,234 + 1,000 \times 0,897 + 0,000 \times 4,21 + 0,000 \times 2,21 =$
 $1,897$ state 4

$2,914 + 0,091 \times 0,3243 + 0,000 \times 1,234 + 0,000 \times 0,897 + 0,957 \times 4,21 + 0,043 \times 2,21$
 $= 7,058481$

state 5

$1,400 + 0,200 \times 0,3243 + 0,200 \times 1,234 + 0,200 \times 0,897 + 0,200 \times 4,21 + 0,200 \times$

$2,21=3,175$

Iterasi II:

Dapill

State I :

$1,19 + 0,188 \times 58,9397 + 0,188 \times 0 + 0,313 \times 39,7374 + 0,188 \times 87,1267 + 0,125 \times 50,12633$

State 2 :

$I + 0,158 \times 58,9397 + 0,474 \times 0 + 0,263 \times 39,7374 + 0,00 \times 87,1267 + 0,105 \times 2,3043 = 28,35536$

State 3 :

$0,999 + 0,214 \times 58,9397 + 0,214 \times 0 + 0,268 \times 39,7374 + 0,071 \times 87,1267 + 0,214 \times 45,92083$

State 4 .

$I + 0,000 \times 58,9397 + 0,200 \times 0 + 0,300 \times 39,7374 + 0,400 \times 87,1267 + 0,100 \times 2,3043 = 55,00233$

State 5 :

$1,001 + 0,000 \times 58,9397 + 0,273 \times 0 + 0,182 \times 39,7374 + 0,091 \times 87,1267 + 0,455 \times 49,06019$

DAPIL 11

$$\begin{matrix} 1,7270,091 \\ 10,000 \ 1,000 \\ 1,333 \text{ pDaptil II} \\ 1,4560,091 \\ 1,5290,000 \end{matrix} \left[\begin{matrix} 0,000 \ 0,182 \ 0,545 \ 0,182 \\ 0,000 \ 0,000 \ 0,000 \\ = 0,250 \ 0,167 \ 0,333 \ 0,000 \ 0,250 \\ 0,273 \ 0,000 \ 0,455 \ 0,182 \end{matrix} \right]$$

 $f(1) \qquad f(2) = 0 \ f(3) = \qquad f(4) = 87,1267 \qquad 72,3043$

$= 58,9397 \qquad 39,7374 \qquad f(5) =$
state I

$$+ \quad \times 58,9397 + \quad \times + \quad \times 39,7374 + \quad \times$$

A-6

$$1,727 \ 0,091 \quad 0,000 \ 0 \ 0, \ 182 \quad 0,545 \ 87, \ 1267 + 0,182 \times \quad 74,96615$$

state 2

$$I + 0,000 \times 58,9397 + 1,000 \times 0 + 0,000 \times 39, \ 7374 + 0,000 \times 87, \ 1267 + 0,000 \times \\ \times \\ 72,3043 = 1$$

state 3

$$1,333 + 0,250 \times 58,9397 + 0, \ 167 \times 0 + 0,333 \times 39,7374 + 0,000 \times 87, \ 1267 + 0,250 \times \\ 72,3043 = 47,37655$$

state 4

$$1,456 + 0,091 \times 58,9397 + 0,273 \times 0 + 0,000 \times 39,7374 + 0,455 \times 87,1267 + 0, \ 1 \\ 82 \times 72,3043 = 59,56616 \text{ state 5}$$

$$1,529 + 0,000 \times 58,9397 + 0,000 \times 0 + 0,294 \times 39,7374 + 0,235 \times 87, \ 1267 + 0,471 \times \\ 67,7419$$

DAPIL 111

$$V = \begin{bmatrix} 4 \\ 1 \\ 1 \\ 0,999 \\ 1 \end{bmatrix} P, \quad \begin{matrix} 0,071 \\ 0,526 \\ \text{Dapil} \\ 0,000 \\ 0,000 \end{matrix} \begin{bmatrix} 0,000 \ 0,643 \ 0,286 \ 0,000 \ 0,158 \\ 0,263 \ 0,000 \ 0,053 \\ 111 \ =0,333 \ 0,167 \ 0,500 \ 0,000 \\ 0,000 \ 0,071 \ 0,214 \ 0,714 \ 0,000 \\ 0,143 \ 0,143 \ 0,214 \ 0,143 \ 0,357 \end{bmatrix}$$

$$(I) = 58,9397 \quad = 0 \ (3) = 39,7374 \ (4) = 87,1267 \quad f(5) = 72,3043$$

state I

$$I + 0,071 \times 58,9397 + 0,000 \times 0 + 0,643 \times 39,7374 + 0,286 \times 87,1267 + 0,000 \times \\ ,3043 = 55,6541$$

state 2

$$1 + 0,158 \times 58,9397 + 0,526 \times 0 + 0,263 \times 39,7374 + 0,000 \times 87, \ 1267 + 0,053 \times \\ 2,3043 = 24,5955 \text{ state 3}$$

$$I + 0,333 \times 58,9397 + 0,167 \times 0 + 0,500 \times 39,7374 + 0,000 \times 87,1267 + 0,000 \times \\ ,3043 = 40,49562 \text{ state 4}$$

$$+ \quad \times 39,7374 + \quad \times$$

state

$0,999 + 0,000 \times 58,9397 + 0,071 \times 0 + 0,214 \times 0,714 \times 87,1267 + 0,000 \times 72,3043 = 71,71127$

5

$I + 0,143 \times 58,9397 + 0,143 \times 0 + 0,214 \times 39,7374 + 0,143 \times 87,1267 + 0,357 \times 72,3043 = 56,20393$

DAPIL IV

$$V = \begin{bmatrix} 1,25 \\ 1 \\ 1 \\ 1,811 \\ 1,091 \end{bmatrix} P = \begin{bmatrix} 0,364 & 714 & 0,333 & 143 \\ 0,000 & 0,386 & 0,250 & 0,000 & 0,000 & 0, \\ 0,286 & 0,000 & 0,000 & 0,000 & 0,000 & 0,000 \\ 0,667 & 0,000 & 0,000 & 0,000 & 0,048 & 0, \\ 0,810 & 0,000 & 0,000 & 0,000 & 0,000 & 0,000 \end{bmatrix}$$

$f(1) = 58,9397 \quad f(2) = 0 \quad f(3) = 39,7374 \quad (4)$
 $= 87,1267 \quad f(5) = 72,3043$

state

$1,25 + 0,364 \times 58,9397 + 0,000 \times 0 + 0,386 \times 39,7374 + 0,250 \times 87,126 + 0,000 \times 72,3043 = 59,82419$

state 2

$1 + 0,000 \times 58,9397 + 0,714 \times 0 + 0,286 \times 39,7374 + 0,000 \times 87,126 + 0,000 \times 72,3043 = 12,3649$

state 3

$I + 0,000 \times 58,9397 + 0,333 \times 0 + 0,667 \times 39,7374 + 0,000 \times 87,126 + 0,000 \times 72,3043 = 27,50485$ state 4

$1,811 + 0,000 \times 58,9397 + 0,048 \times 0 + 0,143 \times 39,7374 + 0,810 \times 87,126 + 0,000 \times 72,3043 = 78,06551$ state 5

$1,091 + 0,091 \times 58,9397 + 0,091 \times 0 + 0,091 \times 39,7374 + 0,091 \times 87,126 + 0,636 \times 72,3043 = 63,98462$

DAPIL V

$$\begin{bmatrix} 1,320,200 \\ 0,999,000 \\ 1,126 \\ 1,818,091 \\ 1,714,000 \end{bmatrix} P_{Dapil} = \begin{bmatrix} 0,000 & 0,280 & 0,320 & 0,200 \\ 0,789 & 0,105 & 0,000 & 0,105 \\ 0,063 & 0,250 & 0,563 & 0,125 \\ 0,000 & 0,000 & 0,818 & 0,091 \end{bmatrix}$$

$= 58,9397 \quad 39,7374 \quad f(5) =$

state I

$$f(1) = 1,32 \times 0,200 + 0,000 \times 0,280 + 0,320 \times 87,126 + 0,200 \times 72,3043 = 66,57559$$

state 2

$$0,999 + 0,000 \times 58,9397 + 0,789 \times 0 + 0,105 \times 39,7374 + 0,000 \times 87,126 + 0,105 \times 72,3043 = 12,76338 \text{ state 3}$$

$$1,126 + 0,063 \times 58,9397 + 0,250 \times 0 + 0,563 \times 39,7374 + 0,125 \times 87,126 + 0,000 \times 72,3043 = 38,10211$$

state 4

$$1,818 + 0,091 \times 58,9397 + 0,000 \times 0 + 0,000 \times 39,7374 + 0,818 \times 87,126 + 0,091 \times 72,3043 = 85,03027$$

state 5

$$1,714 + 0,000 \times 58,9397 + 0,000 \times 0 + 0,143 \times 39,7374 + 0,714 \times 87,126 + 0,143 \times 72,3043 = 79,94393$$

DAPIL VI

$$v = \begin{bmatrix} 1,571 \\ 1 \\ 2,914 \\ 1,400 \end{bmatrix} P_1 = \begin{bmatrix} 0,061 & 0,833 & 0,091 \\ 0,020 & 0,510 & 0,286 & 0,122 & 0,000 \\ 0,167 & 0,000 & 0,000 & 0,000 & 0,000 \\ 0,000 & 0,000 & 1,000 & 0,000 & 0,000 \\ 0,000 & 0,000 & 0,957 & 0,043 & 0,200 \end{bmatrix}$$

$$f(1) = 58,9397 \quad O \quad f(3) = 39,7374 \quad (4) = 87,1267 \quad f(5) = 72,3043$$

state I

$$1,571 + 0,061 \times 58,9397 + 0,020 \times 0 + 0,510 \times 39,7374 + 0,286 \times 87,126 + 0,122 \times 72,3043 = 74,96615 \text{ state 2}$$

$$1 + 0,000 \times 58,9397 + 0,833 \times 0 + 0,167 \times 39,7374 + 0,000 \times 87,126 + 0,000 \times 72,3043 = 28,35536 \text{ state 3}$$

$$1 + 0,000 \times 58,9397 + 0,000 \times 0 + 1,000 \times 39,7374 + 0,000 \times 87,126 + 0,000 \times 72,3043 = 47,37655$$

state 4

$$2,914 + 0,091 \times 58,9397 + 0,000 \times 0 + 0,000 \times 39,7374 + 0,957 \times 87,126 + 0,043 \times 72,3043 = 94,76618$$

5

$$+ \quad \quad \quad \times 39,7374 + \quad \quad \quad \times$$

state

$$\begin{array}{rcl}
 & + & \times 58,9397 & + & \times 39,7374 \\
 1,400 & 0,200 & + 0,200 \times 0 & 0,200 & + 0,200 \times 87,126 + 0,200 \times 2,3043 = \\
 79,94393 & & & &
 \end{array}$$

Iterasi III:

Dapil 1:

$$(1) = 58,7297 \quad (2) = 0 \quad f(3) = 39,5274 \quad (4) = 86,767 \quad f(5) = 69,314$$

State I .

$$1,19 + 0,188 \times 58,7297 + 0,188 \times 0 + 0,313 \times 39,5274 + 0,188 \times 86,767 + 0,125 \times 69,314 = 49,57971$$

State 2 :

$$1 + 0,158 \times 58,7297 + 0,474 \times 0 + 0,263 \times 39,5274 + 0,00 \times 86,767 + 0,105 \times 69,314 = 27,95297$$

State 3 :

$$0,999 + 0,214 \times 58,7297 + 0,214 \times 0 + 0,268 \times 39,5274 + 0,071 \times 86,767 + 0,214 \times 69,314 = 45,15415$$

State 4 :

$$1 + 0,000 \times 58,7297 + 0,200 \times 0 + 0,300 \times 39,5274 + 0,400 \times 86,767 + 0,100 \times 69,314 = 54,49642$$

State 5 :

$$1,001 + 0,000 \times 58,7297 + 0,273 \times 0 + 0,182 \times 39,5274 + 0,091 \times 86,767 + 0,455 \times 69,314 = 47,62865$$

DAPIL 11

$$V = \begin{bmatrix} 1,727 \\ 1 \\ 1,333 \\ 1,456 \\ 1,529 \end{bmatrix} P_{Dapil II} = \begin{bmatrix} 0,091 & 0,000 & 0,182 & 0,545 & 0,182 \\ 0,000 & 1,000 & 0,000 & 0,000 & 0,000 \\ 0,250 & 0,167 & 0,333 & 0,000 & 0,250 \\ 0,091 & 0,273 & 0,000 & 0,455 & 0,182 \\ 0,000 & 0,000 & 0,294 & 0,235 & 0,471 \end{bmatrix}$$

$$\begin{array}{lllll}
 (1) & (2) = 0 & f(3) = & (4) = 86,767 & 69,314
 \end{array}$$

A-10

$$= 58,9397$$

$$39,7374$$

$$f(5) =$$

state I

$$\begin{array}{ccccccc}
 + & & \times 58,9397 + & & \times + & & \times 39,7374 + & & \times \\
 1,727 & 0,091 & & & 0,000 & 0 & 0,182 & & 0,545 & 86,767 + & 0, & 182 & \times \\
 69,314 = & 74, & 16855 & & & & & & & & & &
 \end{array}$$

state 2

$$\begin{array}{l}
 1 + 0,000 \times 58,7297 + 1,000 \times 0 + 0,000 \times 39,5274 + 0,000 \times 86,767 + 0,000 \times \\
 69,314 = 1
 \end{array}$$

state 3

$$\begin{array}{l}
 1,333 + 0,250 \times 58,7297 + 0, & 167 \times 0 + 0,333 \times 39,5274 + 0,000 \times 86,767 + 0,250 \times \\
 69,3 & 46,50655
 \end{array}$$

state 4

$$\begin{array}{l}
 1,456 + 0,091 \times 58,7297 + 0,273 \times 0 + 0,000 \times 39,5274 + 0,455 \times 86,767 + 0, & 182 \times \\
 69,314 = 58,89454 & \text{state 5}
 \end{array}$$

$$\begin{array}{l}
 1,529 + 0,000 \times 58,7297 + 0,000 \times 0 + 0,294 \times 39,5274 + 0,235 \times 86,767 + 0,471 \times \\
 66, & 18719
 \end{array}$$

DAPIL 111

$$\begin{array}{l}
 V = \begin{bmatrix} 1 \\ 1 \\ 1 \\ 0,999 \\ 1 \end{bmatrix} P_{Dapil\ III} = \begin{bmatrix} 0,071 & 0,000 & 0,643 & 0,286 & 0,000 \\ 0,158 & 0,526 & 0,263 & 0,000 & 0,053 \\ 0,333 & 0,167 & 0,500 & 0,000 & 0,000 \\ 0,000 & 0,071 & 0,214 & 0,714 & 0,000 \\ 0,143 & 0,143 & 0,214 & 0,143 & 0,357 \end{bmatrix} \\
 \end{array}$$

$$RI) = 58,9397 \quad f(2) = 0 \quad f(3) = 39,5274 \quad f(4) = 86,767 \quad f(5) = 69,314$$

state I

$$\begin{array}{l}
 1 + 0,071 \times 58,7297 + 0,000 \times 0 + 0,643 \times 39,5274 + 0,286 \times 86,767 + 0,000 \times \\
 69,314 = 55,40129 & \text{state 2}
 \end{array}$$

$$\begin{array}{l}
 1 + 0, & 158 \times 58,7297 + 0,526 \times 0 + 0,263 \times 39,5274 + 0,000 \times 86,767 + 0,053 \times \\
 69,314 = 24,34864
 \end{array}$$

state 3

$$\begin{array}{l}
 1 + 0,333 \times 58.7297 + 0,167 \times 0 + 0,500 \times 39,5274 + 0,000 \times 86,767 + 0,000 \times 69,314 = \\
 40,32069
 \end{array}$$

state 4

$$\begin{array}{l}
 0,999 + 0,000 \times 58,7297 & 0,071 \times 0 + 0,214 & & 0,714 & & 86,767 + & & 0,000 & & \times \\
 & 71,4095 & & & & & & & &
 \end{array}$$

A-II

$$\begin{array}{ccccccc}
 + & & & & \times 39,5274 + & & \times
 \end{array}$$

$$\begin{aligned}
 & \times 58,7297 \quad + \quad \times 39,5274 \\
 & \text{state 5} \\
 & 1 + 0,143 \quad + 0,143 \times 0,214 \quad + 0,143 \times 86,767 + 0,357 \\
 & 69,314 = 55,00999 \quad \times
 \end{aligned}$$

DAPIL IV

$$V = \begin{bmatrix} 1,25 \\ 1 \\ 1 \\ 1,811 \\ 1,091 \end{bmatrix} P_{Dapil IV} = \begin{bmatrix} 0,364 & 0,000 & 0,386 & 0,250 & 0,000 \\ 0,000 & 0,714 & 0,286 & 0,000 & 0,000 \\ 0,000 & 0,333 & 0,667 & 0,000 & 0,000 \\ 0,000 & 0,048 & 0,143 & 0,810 & 0,000 \\ 0,091 & 0,091 & 0,091 & 0,091 & 0,636 \end{bmatrix}$$

$$\begin{aligned}
 f(1) &= 58,7297 \quad f(2) = 0 \quad f(3) = 39,5274 \quad f(4) = 86,767 \quad f(5) = 69,314
 \end{aligned}$$

state I

$$1,25 + 0,364 \times 58,7297 + 0,000 \times 0 + 0,386 \times 39,5274 + 0,250 \times 86,767 + 0,000 \times 69,314 = 59,57694 \text{ state 2}$$

$$1 + 0,000 \times 58,7297 + 0,714 \times 0 + 0,286 \times 39,5274 + 0,000 \times 86,767 + 0,000 \times 69,314 = 12,30484 \text{ state 3}$$

$$1 + 0,000 \times 58,7297 + 0,333 \times 0 + 0,667 \times 39,5274 + 0,000 \times 86,767 + 0,000 \times 69,314 = 27,36478$$

state 4

$$1,811 + 0,000 \times 58,7297 + 0,048 \times 0 + 0,143 \times 39,5274 + 0,810 \times 86,767 + 0,000 \times 69,314 = 77,74469 \text{ state 5}$$

$$1,091 + 0,091 \times 58,7297 + 0,091 \times 0 + 0,091 \times 39,5274 + 0,091 \times 86,767 + 0,636 \times 69,314 = 62,0119$$

DAPIL V

$$\begin{aligned}
 & 1,320,200 \quad \begin{bmatrix} 0,000 & 0,280 & 0,320 & 0,200 \\ 0,999 & 0,000 & 0,789 & 0,105 \\ 1,126 & 0,000 & 0,063 & 0,250 \\ 1,818 & 0,091 & 0,000 & 0,000 \\ 1,714 & 0,000 & 0,000 & 0,143 \end{bmatrix} \\
 & P_{Dapil V} = \begin{bmatrix} 0,280 & 0,320 & 0,200 & 0,105 \\ 0,063 & 0,250 & 0,563 & 0,125 \\ 0,818 & 0,091 & 0,143 & 0,143 \end{bmatrix}
 \end{aligned}$$

$$(1) = 58,7297 \quad (2) = 0 \quad (3) = 39,5274 \quad f(4) = 86,767 \quad f(5) = 69,314$$

state I

$$1,32 + 0,200 \times 58,7297 + 0,000 \times 0 + 0,280 \times 39,5274 + 0,320 \times 86,767 + 0,200 \times 69,314 = 65,76185$$

$$+ \quad \times 58,9397 + \quad \times + \quad \times 39,7374 + \quad \times$$

A-12

state 2

$$0,999 \times 0,000 \times 0,789 \times 0,105 \times 0,000 \times 86,767 + 0,105 \times 69,314 = 12,42735 \text{ state 3}$$

$$1,126 + 0,063 \times 58,7297 + 0,250 \times 0 + 0,563 \times 39,5274 + 0,125 \times 86,767 + 0,000 \times 37,92577$$

state 4

$$1,818 + 0,091 \times 58,7297 + 0,000 \times 0 + 0,000 \times 39,5274 + 0,818 \times 86,767 + 0,091 \times 69,314 = 84,44538 \text{ state 5}$$

$$1,714 + 0,000 \times 58,7297 + 0,000 \times 0 + 0,143 \times 39,5274 + 0,714 \times 86,767 + 0,143 \times 69,314 = 79,22996$$

DAPIL VI

$$v = \begin{bmatrix} 1,571 \\ 1 \\ 1 \\ 2,914 \\ 1,400 \end{bmatrix} P_{Dapil VI} = \begin{bmatrix} 0,061 & 0,020 & 0,510 & 0,286 & 0,122 \\ 0,000 & 0,833 & 0,167 & 0,000 & 0,000 \\ 0,000 & 0,000 & 1,000 & 0,000 & 0,000 \\ 0,091 & 0,000 & 0,000 & 0,957 & 0,043 \\ 0,200 & 0,200 & 0,200 & 0,200 & 0,200 \end{bmatrix}$$

$$f(1) = 58,9397 \quad f(2) = 0 \quad (3) = 39,5274 \quad (4) = 86,767 \quad (5) = 69,314$$

state I

$$1,571 + 0,061 \times 58,7297 + 0,020 \times 0 + 0,510 \times 39,5274 + 0,286 \times 86,767 + 0,122 \times$$

$$69,314 = 58,58416$$

state 2

$$1 + 0,000 \times 58,7297 + 0,833 \times 0 + 0,167 \times 39,5274 + 0,000 \times 86,767 + 0,000 \times 69,314 = 7,601076$$

state 3

$$1 + 0,000 \times 58,7297 + 0,000 \times 0 + 1,000 \times 39,5274 + 0,000 \times 86,767 + 0,000 \times 69,314 = 40,5274 \text{ state 4}$$

$$2,914 + 0,091 \times 58,7297 + 0,000 \times 0 + 0,000 \times 39,5274 + 0,957 \times 86,767 + 0,043 \times 69,314 = 94,27492$$

state 5

$$1,400 + 0,200 \times 58,7297 + 0,200 \times 0 + 0,200 \times 39,5274 + 0,200 \times 86,767 + 0,200 \times 69,314 = 52,26762$$

LAMPIRAN B

BAHASA PEMROGRAMAN MATLAB INFINITE STAGE

1. Hasil Perhitungan Lengkap Matlab

Policy Iteration

Masukkan Jumlah State : 5

00610 0.0200 0.5100 0.2860

0 1220

Masukkan Jumlah Tindakan :6

Input Matnks peluang transisi untuk

Input Matriks peluang transisi untuk

State ke-1 :

State ke-2:

[0 188 0 188 0313 0 188 0.125

[0 158 0.474 0 263 0 0.105

0 091 0 0 182 0 545 0.182

1 0 0 0

0071 0 0 643 0.286 0

0.158 0.526 0 263 0 0.053

0364 0 0 386 0.25 0

0 0.714 0.286 0 0

0 2 0 0.28 032 02

0 0 789 0 105 0 0 105

0 286 0. 1221

0 0 833 0 167 0 0] 0 061 002 0.51

Matnks peluang transtsl State ke-1

Matnks peluang transisi State ke- 2

0 1880 0 1880 03130 0.1880

0. 1580 0 4740 0 2630 0

0 1250

0 1050

00910 0 0 1820 0 5450

0 1 0000 0 0 0

0 1820 0 1580 0.5260 0.2630 0

0 0530

0 0710 o 0 6430 0.2860

o 0 7140 0.2860 o o

0.3640 o 0 3860 0 2500

o 0.7890 O. 1050 0
0 1050

0 2000 o 0 2800 0 3200
0 2000

o 0 8330 0 1670 o o

Input Matrks peluang transisi untuk
State ke-3

8-2

[0214 0 214 0 286 0 071 0214

o 0.2000 0.3000 0 4000

025 O. 167 0.333 o

0.25

0 1000

0.0910 0.2730

o 0.4550

0 333 0 167 0.5

o

o

O. 1820

o 0 333 0 667 o o

o 0 0710 02140 0 7140

0,063 0.25 0.563 o. 125 0

o o 1 o 01

o 0.0480 0 1430 ().8100

Matriks peluang transisi State ke-3

00910 o o 0,8180

0.2140 02140 0 2860 0 0710

0 0910

0.2140

o o 0 09570 0 0430

0,2500 0 1670 0.3330 0

0 2500 transtsi untuk

Input Matriks peluang
State ke-5

0 3330 0 1670 0 5000 0

[0 0.273 o. 182 0.091 0.455

0 0.3330 0 6670

o

o

o

o

0 294 0.235 0.471

0.0630 0.2500 0.5630 o. 1250 0 143 0 143 0214 0 143 0.357

o 0.091 0 091 0091 0 091 0 636
0 1 0000 o o o o
0 143 0.714 0.143

Input Matnks peluang transtsi untuk 0.2 0.2 0.2 0.2 0.2]

State ke-4• Matnks peluang transtsi State ke-5

[0 0.2 0 3 04 0 1 0 0.2730 0.1820 0.0910

0 091 0.273 o 0.455 0.182 0 4550

o 0 071 0.214 0714 0o o 0.2940 0.2350

o 0.048 0.143 0.81 0 0 4710

0.091 o o 0 818 0 091 o. 1430 o. 1430 02140 0 1430

o o o 0.957 0 0431 0.3570

00910 0.0910 0.0910 00910 0.6360

Matriks peluang transisi State ke-4

0 o 0.1430 0.7140

0.1430

o o o o

0 2000 0 2000 02000 0 2000 o 1 1 1

0.2000

o o Input Matriks Reward untuk 1 1 State ke-1 :

o o 1 1

Input Matnks untuk State Reward ke-3:

Matnks Reward State ke- I

Matnks Reward State ke-3

1 1 0 0 Input

1 12 0



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Matnks Reward State ke-5

002 2 1

0 0 2 1

[01 1 1 1 1 1 13 1

Mencari nilai fungsi $f(i)$ untuk tindakan ke-1 :

$$E +) - 0.188 \quad) - 0.188 * f(2) - 0.313 * f(3) - 0.188 * f(4) - 0.125 * f(5) = 1.190$$

$$E + (2) - 0.158 * f(1) - 0.474 * f(2) - 0.263 * f(3) - 0.000 * f(4) - 0.105 * f(5) = 1.000$$

$$E + (3) - 0.214 \quad 214 * f(2) - 0.286 \quad 071 \quad 214 * f(5) = 0.999$$

$$E + R4) - 0.000 \quad) - 0.200 * f(2) - 0.300 * f(3) - 0.400 * f(4) - 0.100 * f(5) = 1.000$$

$$E (5) - 0.000 * f(1) - 0.273 * f(2) - 0.182 * f(3) - 0.091 * f(4) - 0.455 * f(5) = 1.001$$

Bukan Matriks Persegi

Berkemungkinan tidak punya solusi atau memiliki solusi banyak

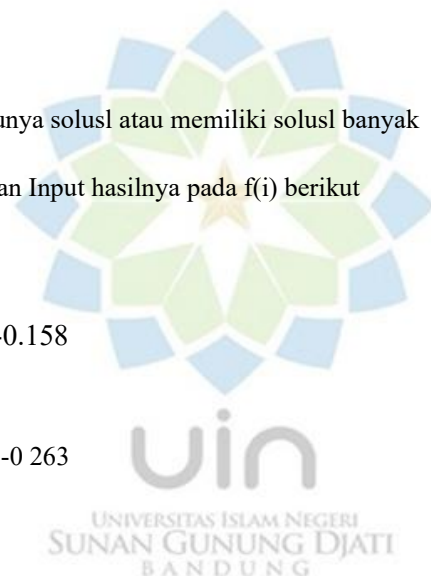
Gunakan software lain, dan Input hasilnya pada $f(i)$ berikut

Input mulai (0) 1

Input nilai RI -0.158

Input mulai $f(2)$ 0.526

Input mulai $q(3)$ -0.263



Input nilai (4) 0

Input nilai f(5): -0.105

Mencari nilai fungsi f(1) untuk tindakan ke-2:

$$\begin{aligned} E + f(1) - 0.091 * f(1) - 0.000 * f(2) - 0.182 * f(3) - 0.545 * f(4) - 182 * 5 - 1727 \\ E + f(2) - 0.000 * f(1) - 1.000 * f(2) - 0.000 * f(3) - 0.000 * f(4) - 0.000 * f(5) = 3 \\ E + 250 * 1 - 167 * 2 - 333 * 3 - 000 * .250 * 5 - 1.333 \\ E + f(4) - 0.091 * f(1) - 0.273 * f(2) - 0.000 * 455 * .182 * 1.456 \\ E + f(5) - 0.000 * f(1) - 0.000 * f(2) - 0.294 * f(3) - 0.235 * f(4) - 0.471 * f(5) - 1.529 \end{aligned}$$

Bukan Matriks Persegi

Berkemungkinan tidak punya solusi atau memiliki solusi banyak

Gunakan software lain, dan input hasilnya pada f(1) berikut:

Input nilai RC): I

Input nilai f(1): 1.6977

Input nilai f(2) 0

Input nilai t(3): 1.5602

Input nilai f(4): 0.5983

Input nilai t(5): 1.1329

Mencari nilai fungsi f(i) untuk tindakan ke-3:

$$\begin{aligned} E + f(1) - 0.071 * f(1) - 0.000 * f(2) - 0.643 * f(3) - 286 * 4 - 000 * 5 - 1.000 \\ E + f(2) - 0.158 * f(1) - 0.526 * f(2) - 263 * 000 * 4 - 053 * 5 - 1.000 \\ E + 333 * 1 - 167 * 500 * 3 - 000 * 000 * 5 - 1.000 \\ E + f(4) - 0.000 * f(1) - 0.071 * f(2) - 0.214 * f(3) - 0.714 * f(4) - 0.000 * f(5) = 0.999 \\ E + f(5) - 0.143 * f(1) - 0.143 * f(2) - 0.214 * f(3) - 0.143 * f(4) - 0.357 * f(5) - 1.000 \end{aligned}$$

Bukan Matriks Persegi

Berkemungkinan tidak punya solusi atau memiliki solusi banyak

Gunakan software lain, dan input hasilnya pada f(1) berikut.

Input mlai 0 9998

Input nilai f(1): 00021

Input mlai f(2): 0 0029 Input

rulai f(3)• 0 0028

Input nilai f(4) : 0

Input nilai f(5).0.0023

Mencan nilai fungsi f(1) untuk tmdakan ke-4.

$$\begin{aligned} E + f(1) &= 0.364 - 0.000 \cdot 386 - 250 \cdot f(4) - 0.000 \cdot f(5) = 1.250 \\ E + f(2) &= 0.000 - 0.714 \cdot f(2) - 0.286 \cdot f(3) - 0.000 \cdot f(4) - 0.000 \cdot f(5) = 1.000 \\ E + f(3) &= 0.000 \cdot f(1) - 0.333 \cdot f(2) - 0.667 \cdot f(3) - 0.000 \cdot f(4) - 0.000 \cdot f(5) = 1.000 \\ E + f(4) &= 0.000 \cdot f(1) - 0.048 \cdot f(2) - 0.143 \cdot f(3) - 0.810 \cdot f(4) - 0.000 \cdot f(5) = 1.811 \\ E + f(5) &= 0.091 \cdot f(1) - 0.091 \cdot f(2) - 0.091 \cdot f(3) - 0.091 \cdot f(4) - 0.636 \cdot f(5) = 1.091 \end{aligned}$$

Bukan Matrtrks Persegi

Berkemungkman tidak punya solusl atau memlllkl solusl banyak

Gunakan software lain, dan input hasilnya pada f(i) benkut:

Input rulai fX())• 1 047

Input miai q 1) : 1.9138

Input nilai f(2)• 0 141

Input mlai (3) .

0 Input nilai f(4): 4

0567

Input mlai f(5) : 1 65

Mencan rulai fungsi f(1) untuk tmdakan ke-5.

$$E + 200\,000\,280 \cdot f(3) - 0.320 \cdot f(4) - 0.200 \cdot f(5) = 1.320 \cdot E + f(2) - 0.000$$

$$\cdot f(1) - 0.789 \cdot f(2) - 0.105 \cdot f(3) - 0.000 \cdot f(4) - 0.105 \cdot f(5) = 0.999$$

$$E + (3) - 0.063 \cdot f(1) - 0.250 \cdot f(2) - 0.563 \cdot f(3) - 0.125 \cdot f(4) - 0.000 \cdot f(5) = 1.126$$

$$E + 0.091 \cdot f(1) - 0.000 \cdot f(2) - 0.000 \cdot f(3) - 0.818 \cdot f(4) - 0.091 \cdot f(5) = 1.818$$

$$E + (5) - 0.000 \cdot f(1) - 0.000 \cdot f(2) - 0.143 \cdot f(3) - 0.714 \cdot f(4) - 0.143 \cdot f(5) = 1.714$$

Bukan Matriks Persegi

Berkemungkinan tidak punya solusi atau memiliki solusi banyak

Gunakan software Iam, dan Input hasilnya pada f(1) berikut:

Input mulai f(0). 1.5852

Input nilai RI) 3.2511 Input

mulai f(2): 0

Input mulai f(3). 0.9161

Input nilai f(4): 5.238

Input nilai f(5) 4.6671

Mencari nilai fungsi f(i) untuk tindakan ke-6:

$$E + f(5) - 0.061 \cdot f(1) - 0.020 \cdot f(2) - 0.510 \cdot f(3) - 0.286 \cdot f(4) - 0.122 \cdot f(5) = 1.571$$

$$E + 0.000 \cdot f(1) - 0.183 \cdot f(2) - 0.167 \cdot f(3) - 0.000 \cdot f(4) - 0.510 \cdot f(5) = 0.000$$

$$E + 0.000 \cdot f(1) - 0.000 \cdot f(2) - 1.000 \cdot f(3) - 0.000 \cdot f(4) - 0.000 \cdot f(5) = 1.000$$

$$E + 0.000 \cdot f(1) - 0.000 \cdot f(2) - 0.000 \cdot f(3) - 0.957 \cdot f(4) - 0.043 \cdot f(5) = 2.914$$

$$E + 200 \cdot f(1) - 0.200 \cdot f(2) - 0.200 \cdot f(3) - 0.200 \cdot f(4) - 0.200 \cdot f(5) = 1.400$$

Bukan Matriks Persegi

Berkemungkinan tidak punya solusi atau memiliki solusi banyak

Gunakan software Iam, dan Input hasilnya pada f(1) berikut.

Input mulai f(0) 3.213

Input mlaj $f(1)$: 0.3243

Input nilai $f(2)$: 1.234

Input mlai $f(3)$: 0.897

Input mlal $f(4)$: 4.21

Input mlai $f(5)$: 2.21

Proses Iterasi

$$E + (1) - 0.200 * f(1) - 0.000 * f(2) - 0.280 * f(3) - 0.320 * f(4) - 0.200 * f(5) = 1.320$$

$$E + f(2) - 0.000 * f(1) - 0.833 * f(2) - 0.167 * f(3) - 0.000 * f(4) - 0.000 * f(5) = 1.000$$

$$E + (3) - 0.063 * f(1) - 0.250 * f(2) - 0.563 * f(3) - 0.125 * f(4) - 0.000 * f(5) = 1.126$$

$$E + (4) - 0.091 * f(1) - 0.000 * f(2) - 0.000 * f(3) - 0.818 * f(4) - 0.091 * f(5) = 1.818$$
$$E + (5) - 0.000 * f(1) - 0.000 * f(2) - 0.143 * f(3) - 0.714 * f(4) - 1.43 * f(5) = 1.714$$

Bukan Matnks Persegi

Berkemungkinan tidak punya solusi atau memllllkl solusl banyak

Gunakan software lain, dan input hasilnya pada $f(i)$ berikut.

Input mlal $f(1)$: 7.6361

Input rulai q I): 58.9397

Input miai 0

Input miai $f(3)$: 39.7374

Input nilal $f(4)$: 87.1267

Input nilai 72.3043

$$E + (1) - 0.091 * f(1) - 0.000 * f(2) - 0.182 * f(3) - 0.545 * f(4) - 0.182 * f(5) = 1.727$$

$$E + (2) - 0.158 * f(1) - 0.474 * f(2) - 0.263 * f(3) - 0.000 * f(4) - 0.105 * f(5) = 1.000$$

$$E + f(3) - 0.250 * f(1) - 0.167 * f(2) - 0.333 * f(3) - 0.000 * f(4) - 0.250 * f(5) = 1.333$$

$$E + (4) - 0.000 * f(1) - 0.000 * f(2) - 0.000 * f(3) - 0.957 * f(4) - 0.043 * f(5) = 2.914$$

$$E + f(5) - 0.000 * f(1) - 0.000 * f(2) - 0.143 * f(3) - 0.714 * f(4) - 0.143 * f(5) = 1.714$$

Bukan Matriks Persegi

Berkemungkinan tidak punya solusi atau memiliki solusi banyak

Gunakan software lain, dan Input hasilnya pada f(1) berikut:



Input nilai $f(1)$: 7
4261

Input nilai $f(2)$: 58.7297

Input nilai $t(2)$: 0

Input nilai $f(3)$:
39.5

Input nilai $f(4)$: 86
767

Input nilai $f(5)$: 69 314

		Dapil ke-3	Dapil ke-4	Dapil ke-5	
State	Dapil ke-1	Dapil ke-2			Dapil
ke-6	Vin				
	57.025	81.077	63 036	66 962	73 077
	65 648	81.077	Dapil 2		
2	31 953	5.000	28.349	16.305	16 428
	11.601	31.953	Dapil 1		
3	51 532	51 839	45 986	33 030	43.465
	46 192	51 839	Dapil 2		
4	68.066	72.009	84 981	90 504	97 197
	100.587	100 587	Dapil 6		
5	55 198	73.228	62.580	69 491	86 086
	59 438	86 086	Dapil 5		

Exhaustive Enumeration

Masukkan Jumlah state : 5

PO, 2). 0 188

Masukkan Jumlah tindakan : 6

P(1, 3): 0 313

Input Matriks peluang transisi untuk

P(1, 4). 0 188

State ke-1 :

P(1,5) o. 125

P(2, 1) 0 158

$P(1, 1) = 0.188$

$P(2, 2) = 0.474$

$P(2, 3) = 0.263$

$0.2000 \quad 0.3000 \quad 0.4000$

$P(2, 4) = 0$

$0.1000 \quad 0.2730 \quad 0.1820 \quad 0.0910$

$P(2, 5) = 0.105$

0.4550

$P(3, 1) = 0.214$

Input Matriks peluang transisi untuk State ke-2:

$P(3, 2) = 0.214$

$P(1, 1) = 0.091$

$P(3, 3) = 0.268$

$P(1, 2) = 0$

$P(3, 4) = 0.071$

$P(1, 3) = 0.182$

$P(3, 5) = 0.214$

$P(1, 4) = 0.545$

$P(4, 1) = 0$

$P(1, 5) = 0.182$

$P(4, 2) = 0.2$

$P(4, 3) = 0.3$

$P(4, 4) = 0.4$

$P(2, 3) = 0$

$P(4, 5) = 0.1$

$P(5, 1) = 0$

$P(5, 2) = 0.273$

$P(5, 3) = 0.182$

$P(3, 1) = 0.025$

$P(3, 2) = 0.167$

$P(5, 4) = 0.091$

$P(3, 3) = 0.333$

$P(5, 5) = 0.455$

Matriks peluang transisi State ke-1
 $0.1880 \quad 0.1880 \quad 0.3130 \quad 0.1880$
 0.1250

$P(3, 5) = 0.25$

$P(4, 1) = 0.091$

$0.1580 \quad 0.4740 \quad 0.2630 \quad 0$

$P(4, 2) = 0.273$

0.1050

$P(4, 3) = 0$

$0.2140 \quad 0.2140 \quad 0.2680 \quad 0.0710$
 0.2140

$P(4, 4) = 0.455$

$P(4, 5) = 0.182$

$P(5, 0)$ $P(2, 5): 0.053$

$P(3,1) = 0$

$333 P(5, 3) = 0.294$ $P(3,2) = 0.167$

$P(5, 4) = 0.235$ $P(3,3) = 0.05$

$P(5, 5) = 0.471$

Matnks peluang transisi State ke-2

$0.0910 \quad 0.01820 \quad 0.5450$
 0.1820
 $0.10000 \quad 0 \quad 0 \quad 0$
 $0.2500 \quad 0.1670 \quad 0.3330 \quad 0$
 0.2500
 $0.0910 \quad 0.2730 \quad 0.04550 \quad 0.1820$
 $0.2940 \quad 0.2350 \quad 0.20143$
 0.4710

$P(4,2) = 0.071$
 $P(4,3) = 0.214$
 $P(4,4) = 0.714$
 $P(5,1) = 0.143$

Input Matriks peluang transsi untuk
State ke-3:

$P(1, 1) = 0.071$

$P(1, 2) = 0$

$P(1, 3) = 0.0643$

$P(5, 3): 0.214$

$P(5, 4) = 0.143$

$P(5, 5) = 0.357$

Matriks peluang transisi State ke-3

$0.0710 \quad 0.06430 \quad 0.2860$
 0

$P(1,4) \bullet 0.286$ 0 1580 0.5260 0 2630 0
0 0530

$P(2, 158$ 0 3330 0 1670 0.5000 0

$P(2, 2) 0.526$ o 0.0710 0.2140 0.7140

$P(2, 3) 0.263$

o. 1430 0.1430 0.2140 o. 1430 $P(3, 5): O$
0 3570

Input Matnks peluang transtst untuk
State ke-4

$P(1, 1): 0.364$

$P(1, 3) 0.386$

$P(1, 4): 0.25$

$P(2, 1) O$

$P(2, 2): 0.714$

$P(2, 3) 0.286$

$P(3, 1) O$

$P(3, 2): 0.333$

$P(3, 3): 0.667$

$P(3, 4). O$

$P(4,2) 0.048$

$P(4, 3): o. 143$

$P(4, 4) 0.81$

$P(5, 1) \bullet 0.091$

$P(5, 2) : 0.091$

5.3)0.091

5.4)0.091

$P(5, 5): 0.636$

Matriks peluang translSi State ke-4

0 3640 0 0.3860 0 2500 P

o 0 7140 0 2860 o (

o 0 3330 0 6670 o 1

o 0 0480 0 1430 0 8100 ,

().0910 0.0910 0.0910 0 0910 3

0 6360)

Input Matnks peluang transisi untuk • 0

8-
12
S
t
a
t
e
k
e
-
5
:

$P(1,$
1
)
0
2

28

$P(1, 4) 0.32$

$P(1, 5): 0.2$

$P(2, 1) \cdot 0$

$P(2, 2) 0.789$

$P(2, 3): 0.105$

$P(2, 5) 0.105$

$P(3, 1) 0.063$

$2) 0.25$

o

o



$$P(3,3) = 0.563$$

$$P(3,4) = 0.125$$

$$P(4,1) = 0.091$$

$$P(4,4) = 0.818$$

$$P(4,5) = 0.091$$

$$P(5,2) = 0$$

$$P(5,3) = 0.143$$

$$P(5,4) = 0.714$$

$$P(5,5) = 0.143$$

Matriks peluang transisi State ke-5

$$\begin{bmatrix} 0.2000 & 0.0280 & 0.3200 \\ 0.2000 & 0.0789 & 0.1050 \\ 0.1050 & 0.0630 & 0.2500 \end{bmatrix}$$

$$\begin{bmatrix} 0.0910 & 0.08180 \\ 0.0910 & 0.1430 \\ 0.7140 & 0.1430 \end{bmatrix}$$

$$\begin{bmatrix} 0.0910 & 0.08180 \\ 0.0910 & 0.1430 \\ 0.7140 & 0.1430 \end{bmatrix}$$

$$\begin{bmatrix} 0.0910 & 0.08180 \\ 0.0910 & 0.1430 \\ 0.7140 & 0.1430 \end{bmatrix}$$

$$\begin{bmatrix} 0.0910 & 0.08180 \\ 0.0910 & 0.1430 \\ 0.7140 & 0.1430 \end{bmatrix}$$

$$\begin{bmatrix} 0.0910 & 0.08180 \\ 0.0910 & 0.1430 \\ 0.7140 & 0.1430 \end{bmatrix}$$

$$\begin{bmatrix} 0.0910 & 0.08180 \\ 0.0910 & 0.1430 \\ 0.7140 & 0.1430 \end{bmatrix}$$

Input Matriks peluang transisi untuk State ke-6:

$$P(1,1) = 0.061$$

$$P(1,2) = 0.020$$

$$P(1,3) = 0.510$$

$$P(1,4) = 0.286$$

$$P(1,5) = 0.122$$

$$P(2,2) = 0.833$$

$$P(2,3) = 0.167$$

$$P(2,5) = 0$$

$$P(3,1) = 0$$

$$P(3,2) = 0$$

$$P(3,3) = 1$$

$$P(4,1) = 0.091$$

$$P(4,4) = 0.957$$

$$P(4,5) = 0.043$$

$$P(5,1) = 0.2$$

$$P(5,2) = 0.2$$

$$P(5,3) = 0.2$$

$$P(5,4) = 0.2$$

$$P(5,5) = 0.2$$

Matriks peluang transisi State ke-6

00610 00200 0 5100 0 2860 R (4 , 2) 1
0.1220

0 08330 0.1670 o o
o 0 1 0000 o o R(4, 5): 1
0.0910 o o 0 9570 R(5, 1): 0
0.0430 R(5, 2): 1

0.2000 0.2000 0 2000 0.2000 R(5, 3): 1
0 2000 R(5, 4): 1
R(5, 5): 1

Input Matriks Reward untuk State ke-1 • Matnks Reward State ke-1
RCI, 1): 1
RU, 2): 1

R(2, 1): 1 Input Matriks Reward untuk State ke-2•

R(2, 3) 1
R(2, 4): 0
R(2, 5). 1
R(3, 1). 1

R(3, 3): 1 R(2, 1)• 0
R(3, 4): 1 R (2 , 2) : 1
R(3, 5): 1 R(2, 3). 0
R(2, 5) 0 R(2, 4): 0
R(3, 1) 1



$R(3, 2) = 1$

$R(3, 3) = 2$

$R(3, 5) = 1$

$R(4, 1) = R(2, 4) = 0$

$R(4, 3) = R(3, 1) = 1$

$R(5, 1) = 0$

$R(5, 2) = 0$

$R(5, 3) = 2$

$R(5, 5) = R(4, 3) = 1$

Matnks Reward State ke-2

1	0	2	2	1
0	1	0	0	0
1	1	2	0	1
1	1	0		2
0	0	2	2	1

Input Matriks Reward untuk State ke-3:

1	1	1	0	1
1	1	0		

$R(2, 1) = 1$

$R(2, 2) = 1$

$R(2, 3) = 1$

$R(2, 5) = 1$

$R(3, 2) = 1$

$R(3, 3) = 1$

$R(3, 4) = 0$

$R(4, 1) = 0$

$R(4, 2) = 1$

$R(4, 5) = 0$

$R(5, 1) = 1$

$R(5, 2) = 1$

$R(5, 3) = 1$

$R(5, 4) = 1$

Matriks Reward State ke-3

Input Matnks Reward untuk State ke-4

R(2, 1): 0

R(2, 2): 1

R(2, 3): 1

R(2, 5): 0

R(3, 1): 0

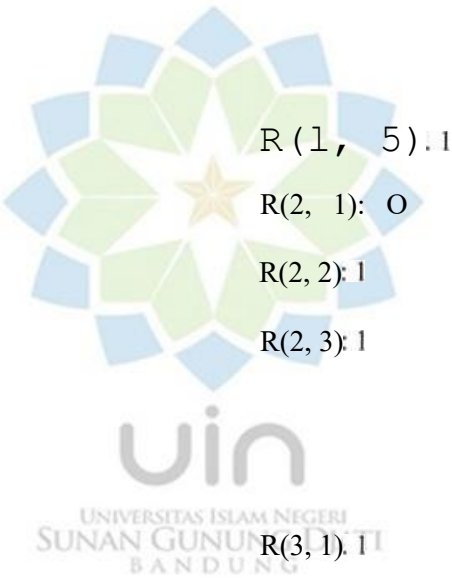
R(3, 2): 1

R(3, 3): 1

Matriks Reward State ke-4

1	0	2	0
1	1	0	0
1	1	0	0
1	2	0	
1	2	1	

Input Matriks Reward untuk State ke-5:



R(4, 3): 1

R(4, 5): 0

R(5, 1): 1

R(5, 3): 1

R(5, 5): 1

R(3, 5): 0

R(4, 1): 1 R(2, 4): 0

R(4, 3): 0 R(3, 1): 0

R(4, 4): 2 R(3, 2): 0

R(4, 5): 1 R(3, 3): 1

R(1, 5): 1

R(2, 1): 0

R(2, 2): 1

R(2, 3): 1

R(3, 1): 1

R(3, 2): 1

R(3, 3): 1

R(2, 2): 1

R(2, 3): 1

R(2, 5): 0

R(5, 1) O

R(3, 4): O

R(5, 2)• O

R(3, 5): O

R(5, 3) l

R (4, 1) 1

R(4, 2): O

R(4, 3): O

Matrlks Reward State ke-5

R(4, 4): 3

1 0 2 1

R(5, 1): 1

1 12 0 R(5, 2) . 11 o o

2 1 R(5, 3) 1

o o 2 1

R(5,4): 3

Input Matrlks Reward untuk State ke-6:

Matrlks Reward State ke-

R(1, 4). 3 o o o o

R (1, 5): 1

1 lo o

lo o 3

IR(2, 1) OI 13 1

Matriks vik:

108 4587 86.7670 86.7670

157 1350 94.6628

1 14.5324 86 6802 97.6996

157.7424 148 7186

136 31 10 86 7670

86.7670

260.7348 121.4738

1 .0000 1 0000 1 0000 0

1 0000 9990

1 2500 1 .0000 1 0000 1 8110

1.0910

1 1900 1 0000 09810 1 0000

1 0010

1 7270 1 .0000 1 .3330 1 .4560

1.5290

1.3200 0.9990 1.1260 1.8180 Masukkan nilai p_1 yang ke-3 0.2
 1.7140 Masukkan Bilai p_1 yang ke-4. 0.2
 1.5710 1.0000 1.0000 3.0050 Masukkan nilai p_1 yang ke-5• 0.2
 1.4000 Ekspektasi Reward.
 90,7862
 Masukkan nilai faktor koreksi. 86.767 123,6637
 Nilai vik yang baru 87,74945
 103.2527 86.7670 85.1184 86.7670 107,9885
 86.8538 122,4701
 149.8466 86.7670 115.6604 140,0059
 126.3328 132.6667 Ekspektasi Reward Terbesar:
 86.7670 86.7670 86.7670 86.6802 140,0059
 86.7670
 Masukkan nilai p_1 yang ke-1 : 0.2
 Masukkan nilai p_1 yang ke-2: 0.2

2. Source Code Policy Iteration

```

input parameter n = input ( 'Masukkan
jumlah State k = Input ( 'Masukkan ');
j umlah T Indakan :');

inputmatriks P % ukuran matriks P adalah tandakan x state x
jumlah satuan state for l=1:fprintf ( Input Matriks peluang
transasi untuk State ke-
%i:\n',l);
    P(:, :, l)=input('');
    fprintf('Matriks pe
    disp(P(:, :, l));
end fprintf ( 'Matriks peluang transsx
State ke-%i\n', l) ;

8xinput matriks R for ll=1:fprintf( 'Input Matriks Reward untuk
State ke-%i:\n', ll) ;
    R( :, : ,ll) =inputfprintf('Matriks Reward
State ke+i\n• , ll) ; dxsp (R ( . , • , ll))end

88ngltung VI k
G = P.*R;
GG = sum (G, 2) ; *menghxtung v utk semua state
[x, y Jesort (GG) ; for ii=1:v (ii) (end, ; ba (ii) -y
(end, :, ii);end % break, %%perbaikan policy ibuat matriks
koefisxen for r=1:k fprxntf( 'Mencari nlla1 fungsx f (i)
untuk tindakan ke-ix:
\n', r);

mat P (r : •mat = reshape (mat, 5, 5) ';
vv(r, : ) = GG(r, : , : ) ; fors=1:

```

```

        fprintf('E + f ( 81) ' , s) ; for t=1:n
fprxntf( '8.3f ( 81) ' , -mat (s, t) ,t)
end fprintf( '- %.3f\n',vv(r,s));end
*nyoba nyari matriks
koefisien for I-I. n mat2 (
,i)=1-mat (i, 1) ;
end mat_baru = (ones (n, 1) mat21 ; v2
= vv(r, : ) ' ;
If size (mat_baru, 1) (mat_baru, 2) f (r,
. ) =matriks (mat_baru, v2) ; elseif size
(mat_baru, 1) N=sxze (mat_baru, 2) dasp(
'Bukan Matriks Persega ) ;
disp( 'Berkemungkinan t:Idak punya solusi atau memlllki
SOLUSI banyak' ) ;disp ( Gunakan software lain, dan input
hasilnya pada f (1) berikut: ' ) ; for pp=() sxze -1
fprintf( 'Input f . pp);

end end
fprintf ( ' \n'
) ; end
f1=f(:,2:end);
for rr=1:k
    mat = P(rr, : , : ) ;mat = reshape (mat, 5,5)
    ' ; vv (rr, G5)(rr, vv(r,v2: ) ' ;
    BB = v2Rones(1,size(v2,1)) (ones (n, 1) *f1
(rr, )) ;v(rr, sum(BB,2));
Mencari solusi optimum [opt1 sort
(v) ; vni=opt1 (end, : ) ; k opt =
opt2 (end, : ) ;

dxsp( 'Proses Iterasi' )
; maks = 10;stop=false ;
step=1 ; while
stop=Lfalse % peluang
trasnsisi baru for ii =
1:n
    P_baru (ii, : ) -P (k_opt (ii) ,:,ii);
    R_baru (ii, : ) -R (k_opt (
XX) , ; end vxk_baru = sum (P baru
. baru, 2) ;
'hitung nilai. f (0) sampai f lagi for s=1:n
fprintf( 'E + f ( 'i' ' , s) ; for t=1:n
fprintf( 'q.3f (ii) % -P_baru (Si t) , t)
end fprintf ( '= %.3f\n',v1k_baru(s,:));end
end nyari matrns koefisien

mat2 (1, i) baru (i, i) ; end mat_baru (n,
% end 1) mat21 ; 'v2 Vlk baru (r, : )';
%nyoba ny If srze (mat_baru, 1) (mat baru, 2)-
for i=1:n f=matriks (mat baru, baru) ; elseif size
(mat_baru, 1) ==sxze dxsp( 'Bukan Matriks
Persegi ' ) ; disp ( 'Berkemungkinan tidak punya solusi at:au
memlllki solusi banyak' ) ; disp ( Gunakan software lain,
dan Input hasilnya pada f (i) berikut: ' ) ; for pp=0: S1ze
-1 fprintf(' Input nilai : , pp) ;

end
end

```

```

    fprintf('\n'),
    f1=f(1,2:end);
    v = Vik baru+sum(P baru.* (ones (n, 1) *f1)
    ,2);
    %=====
    for rr=1:k
        mat = P(rr, : , . ) ;mat = reshape
        (mat, 5, 5) ' • vv (rr, : ) = GG(rr, :
        , : ) ;v2 = v ik baru;
        BB = v2*ones (1, Size (v2, 1 ) ) +mat.* (ones
        (n, 1) ; v3 (rr, : ) = sum (BE, 2) ' ;end
    8mencari solusi optimum lopt1 opt21=
    sort (v3) ; vni=opt1 (end, : ) ; k_opt2
    = opt2 (end, : ) ;

    % cek kondxxs berhenti
    salah o, for l=1. n if
    k_opt (1) ~=k_opt2 (i)
    salah=salah+1 ;
    end end if salahz=0
    || step>=maks k_opt=k_opt2
    ,• stop = true;
    else
        k_opt=k_opt2;
        step=step+ 1 ;
    end end % menampilkan tprxntt (
    'State ' ) ; for l=1: k fprintf(
    fprintf(' Vin \t \t k* ' Dapll
    fprintf('\n');
    v_akhir=v3';
    ke=%i\t',i);end i )

    v_akhir=v3
    '; for
        fprintf('%i\t\t',ii)
        for jj=1:k
            fprintf('%0.3f\t\t',v_akhir(i,j))
        end
        fprintf('%0.3f\t\t',vni(:,ii));
        fprintf('Dapil %i\t',k_opt(:,ii)
        fprintf('\n');
    ii=1.n
    fprxntf(

```

(xi, jJ)) ;

) ;

end

3.Source Code dari Metode Exhaustive Enumeration

```

clear all,
INilax peluang transxsl dari state
i ke state j Input ( 'Masukkan j : '); umlah
state k = Input ( 'Masukkan an ');
jumlah tindakan

```

```

%Input matriks P for l=1: k fprintf ( 'Input Matrllks peluang
translasi untuk State ke-
%i:\n',l);
    for i=1:n
        for j=1:n
            fprintf('P(%i, %i): ',i,
                P(i,j,l)=input('');
        end end fprintf( 'Matrxks peluang transisx State
ke-%i\n', l) ;
        disp(P(:, :, l));
    end

8input matriks R for ll=1: k fprintf( ' Input Matrxks Resrard
untuk      ii=1:n                      Stateke-%i:\n', ll ) , for
        for jj=1:n
            fprintf('R(%i, %i): ',
                R(ii,jj,ll)=input('');
            end
        end
    end fprintf ( 'Matriks Reward Stateke-%i\n', ll)
; sp(R(: . ll) ) ; end

i8ngltung Vik vbantu = 0; for p = 1. k for =1:
for r = 1 *n vbantu = vbantu + P (q, r, p) .
*R (q, r, p) ; end
    [x y] =sort (vbantu) ;
    vik(p,q)=x(1);
    d(p,q)=y(1);
    vbantu = 0;
end end dxsp( 'Matriks
vxk: • ) disp(vlk) ;

fkor = xinput ( 'Masukkan nilai faktor koreksi:');

for u = 1: k
    v = 1:n
    vik_baru(u,v) = vik(u,v)
    for v =
        *fkor; end end
disp ( 'Nl 1 a 1 Vik yang baru: ')
dis( VI k haru) ;

for w = 1 n
    PI (w) = 1 nput (sprmtf( 'Masukkan nl 1 ax PI yangke-%
w) )
;
end

dl 'Ekspektasi Reward: V ) for
x = I k
    E(x) = 0;
    for Y = I n
        (x) =E (x) + (vxk_baru (x, y) (y) )
    , end dl sp (E (x)),end

E max = 0; for z I
k i f E (z) > E max

```

```
E max = E(z); end end dl
'Ekspektasi Reward Terbesar: 'j dl
sp (E max) ;
```

4. Output hasil perhitungan Matlab Policy Iteration

Command Window

	State	Dapil ke-1	Dapil ke-2	Dapil ke-3	Dapil ke-4	ke-5	Dapil ke-6	Vin
1	57 025	21.077	63.036	66.962	3.077	65.648	21.077 2	31.953
			5.000	22.349	16.305	16.422	11.601	31.953
3	51.532	51.239	45.986	33 030	43.465	46.192	51.839	
	68.066	72.009	84.981	90 .504	97. 297	100.527	100.527	
	555.198	73.222	62.520	69.491	86.086	59.438	26.026	

5. Output hasil perhitungan Matlab Exhaustive Enumeration

Command Window

Ekspektasi	
Revard . 90	
7862123 6637	
zon 'ees	
2224701	
1400059	
Ek'pek•tan	Revard
Terbesa::	1400059

LAMPIRAN C

HASIL ITERASI DENGAN MENGGUNAKAN SOFTWARE POM

A. Hasil Iterasi yang Tidak Memiliki Solusi:

Cj	Basic Variables	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Quantity
		X1	X2	X3	X4	X5	artfcl 1	artfcl 2	artfcl 3	artfcl 4	artfcl 5	artfcl 6				
Iteration 1																
0	artfcl 1	-0.812	0.156	0.214	0	0	1	0	0	0	0	0	0	0	0	0
0	artfcl 2	0.188	-0.526	0.214	0.2	0.273	0	1	0	0	0	0	0	0	0	0
0	artfcl 3	0.313	0.283	-0.737	0.3	0.182	0	0	1	0	0	0	0	0	0	0
0	artfcl 4	0.168	0	0.071	-0.6	0.091	0	0	0	1	0	0	0	0	0	0
0	artfcl 5	0.125	0.105	0.214	0.1	-0.545	0	0	0	0	1	0	0	0	0	0
0	artfcl 6	1	1	1	1	1	0	0	0	0	0	1	0	0	1	1
	Zj	1.002	1	0.976	1	1.001	0	0	0	0	0	0	0	0	0	1
	Cj-Zj	1.002	1.0	0.976	1.0	1.001	0	0	0	0	0	0	0	0	0	0
Iteration 2																
0	X1	1	-0.1946	-0.2635	0	0	1.2315	0	0	0	0	0	0	0	0	0
0	artfcl 2	0	-0.4894	0.2635	0.2	0.273	0.2315	1	0	0	0	0	0	0	0	0
0	artfcl 3	0	0.3239	-0.6545	0.3	0.182	0.3855	0	1	0	0	0	0	0	0	0
0	artfcl 4	0	0.0368	0.1205	-0.6	0.091	0.2315	0	0	1	0	0	0	0	0	0
0	artfcl 5	0	0.1293	0.2469	0.1	-0.545	0.1539	0	0	0	1	0	0	0	0	0
0	artfcl 6	0	1.1946	1.2635	1	1	1.2315	0	0	0	0	1	0	1	1	1
	Zj	0	1.195	-1.2401	1	1.001	1.234	0	0	0	0	0	0	0	0	1
	Cj-Zj	0	1.195	-1.2401	1.0	1.001	1.234	0	0	0	0	0	0	0	0	0
Iteration 3																
0	X1	1	0	-0.3663	-0.0795	0.1085	1.3236	-0.3976	0	0	0	0	0	0	0	0
0	X2	0	1	-0.5385	-0.4086	-0.5578	-0.4731	-2.0432	0	0	0	0	0	0	0	0
0	artfcl 3	0	0	-0.4801	0.4324	0.3627	0.5387	0.6618	1	0	0	0	0	0	0	0
0	artfcl 4	0	0	0.1402	-0.5851	0.1114	0.2488	0.0747	0	1	0	0	0	0	0	0
0	artfcl 5	0	0	0.3166	0.1528	-0.4729	0.2151	0.2642	0	0	1	0	0	0	0	0
0	artfcl 6	0	0	1.9068	1.4882	1.6663	1.7966	2.4408	0	0	0	1	0	1	1	1
	Zj	0	0	1.8836	1.4883	1.6676	1.7993	-2.4416	0	0	0	0	0	0	0	1
	Cj-Zj	0	0	1.8836	1.4883	1.6676	1.7993	2.4416	0	0	0	0	0	0	0	0
Iteration 4																
0	X1	1	0	0	-0.4112	-0.3868	1.7369	-0.9053	-0.7672	0	0	0	0	0	0	0
0	X2	0	1	0	-0.8936	-0.9646	1.0773	-2.7856	1.1216	0	0	0	0	0	0	0
0	X3	0	0	1	-0.9006	-0.7554	1.1221	1.3785	-2.0829	0	0	0	0	0	0	0
0	artfcl 4	0	0	0	-0.4587	0.2174	0.4062	0.2681	0.2921	1	0	0	0	0	0	0
0	artfcl 5	0	0	0	0.438	-0.2337	0.5703	0.7807	0.6594	0	1	0	0	0	0	0
0	artfcl 6	0	0	0	3.2054	3.1068	3.9362	5.0694	3.9718	0	0	1	0	1	1	1
	Zj	0	0	0	-3.1846	-3.0905	3.9126	-5.0381	3.9233	0	0	0	0	0	0	1
	Cj-Zj	0	0	0	3.1846	3.0905	3.9126	5.0381	3.9233	0	0	0	0	0	0	0
Iteration 5																
0	X1	1	0	0	0	-0.5816	-2.101	-1.1456	1.0291	-0.8964	0	0	0	0	0	0
0	X2	0	1	0	0	1.386	1.8685	-3.3077	1.6907	1.9479	0	0	0	0	0	0
0	X3	0	0	1	0	1.1821	1.9195	1.9548	-2.6564	1.9631	0	0	0	0	0	0
0	X4	0	0	0	1	-0.4738	-0.8854	-0.5844	-0.6388	-2.1798	0	0	0	0	0	0
0	artfcl 5	0	0	0	0	-0.0262	0.9581	0.9566	0.9383	0.9547	1	0	0	0	0	0
0	artfcl 6	0	0	0	0	4.6255	6.7744	6.9425	6.0129	6.9873	0	1	0	1	1	1
	Zj	0	0	0	0	-4.5993	-6.7326	-6.8991	5.9512	-6.942	0	0	0	0	0	1
	Cj-Zj	0	0	0	0	4.5993	6.7326	6.8991	5.9512	6.942	0	0	0	0	0	0
Iteration 6																
0	X1	1	0	0	0	0	-23.3646	-22.3746	-21.8526	-22.0833	-22.1927	0	0	0	0	0
0	X2	0	1	0	0	0	52.6121	-53.9608	-51.384	52.5084	-52.9608	0	0	0	0	0
0	X3	0	0	1	0	0	-45.137	-45.052	-44.9795	-45.0247	-45.1059	0	0	0	0	0
0	X4	0	0	0	1	0	18.2089	17.8777	17.5995	19.4358	18.0784	0	0	0	0	0
0	X5	0	0	0	0	1	36.5594	-36.4999	35.0027	36.4275	-36.1568	0	0	0	0	0
0	artfcl 6	0	0	0	0	0	175.8799	175.773	171.6185	175.4827	176.4946	1	0	1	1	1
	Zj	0	0	0	0	0	174.8799	174.773	170.6185	174.4827	175.4945	0	0	0	0	1
	Cj-Zj	0	0	0	0	0	174.8799	174.773	170.6185	174.4827	175.4945	0	0	0	0	0

Bisa terlihat dari nilai quantity X1 sampai x5 adalah 0

B. Hasil Iterasi yang memiliki Solusi:

Cj	Basic Variables	0 X1	0 X2	0 X3	0 X4	0 artfcl 1	0 artfcl 2	0 artfcl 3	Quantity
Iteration 1									
0	artfcl 1	0.33	-0.67	0.33	0	1	0	0	135
0	artfcl 2	0	0	-0.5	0.5	0	1	0	101
0	artfcl 3	0	0.5	0	-0.5	0	0	1	0
	Zj	-33	17	17	0	0	0	0	236
	Cj-Zj	0.33	-0.17	-0.17	0	0	0	0	
Iteration 2									
0	artfcl 1	0.33	0	0.33	-0.67	1	0	1.34	135
0	artfcl 2	0	0	-0.5	0.5	0	1	0	101
0	X2	0	1	0	-1	0	0	2	0
	Zj	-33	0	17	17	0	0	-34	236
	Cj-Zj	0.33	0	-0.17	-0.17	0	0	0.34	
Iteration 3									
0	X1	1	0	1	-2.0303	3.0303	0	4.0606	409.0909
0	artfcl 2	0	0	-0.5	0.5	0	1	0	101
0	X2	0	1	0	-1	0	0	2	0
	Zj	0	0	5	-5	1	0	1	101
	Cj-Zj	0	0	-0.5	0.5	-1	0	-1.0	
Iteration 4									
0	X1	1	0	-1.0303	0	3.0303	4.0606	4.0606	819.2121
0	X4	0	0	-1	1	0	2	0	202
0	X2	0	1	-1	0	0	2	2	202
	Zj	0	0	0	0	1	1	1	0
	Cj-Zj	0	0	0	0	-1	-1	-1.0	
Iteration 5									
0	X1	1	0	-1.0303	0	3.0303	4.0606	4.0606	819.2121
0	X4	0	0	-1	1	0	2	0	202
0	X2	0	1	-1	0	0	2	2	202
	Zj	0	0	0	0	0	0	0	0
	Cj-Zj	0	0	0	0	0	0	0	

	Basic						artfcl 2	artfcl	Quantity
Iteration 1									
0	artfcl 1	1	1	-0.5	0	-0.5	1	0	35
0	artfcl 2	1	-0.33	0.33	0	0	0	1	39
0	artfcl 3	1	0	0	0.5	-0.5	0	0	35
0	artfcl 4	1	0	0	-1	1	0	0	70
	Zj	-4	-67	17	5	0	0	0	179
	Cj-Zj	4	0.67	-0.17	-0.5	0	0	0	
Iteration 2									
0	X1	1	1	-0.5	0	-0.5	1	0	35
0	artfcl 2	0	-1.33	0.83	0	0.5	-1	1	4
0	artfcl 3	0	-1	0.5	0.5	0	1	0	0
0	artfcl 4	0	-1	0.5	1	1.5	-1	0	35
	Zj	0	3.33	-1.83	5	-2	4	0	39
	Cj-Zj	0	-3.33	1.83	-0.5	2	-4	0	
Iteration 3									
0	X1	1	0	0	0.5	-0.5	0	1	35
0	artfcl 2	0	0	0.165	-0.665	0.5	0.33	-1.33	4
0	X2	0	1	-0.5	-0.5	0	1	1	0
0	artfcl 4	0	0	0	-1.5	1.5	0	-1	35
	Zj	0	0	-1.65	2.165	2	67	3.33	39
	Cj-Zj	0	0	0.165	-2.165	2	-0.67	-3.33	

Iteration 4											
0	X1	1	0	0.165	-0.165	0	0.33	1	-0.33	0	39
0	X5	0	0	0.33	-1.33	1	0.66	2	-2.66	0	8
0	X2	0	1	-0.5	-0.5	0	1	0	-1	0	0
0	artfcl 4	0	0	-0.495	0.495	0	-0.99	-3	2.99	1	23
	zj	0	0	495	-495	0	1.99	4	-1.99	0	23
	cj-zj	0	0	-0.495	0.495	0	-1.99	-4	1.99	0	
Iteration 5											
0	X1	1	0	0	0	0	0	0.6667	0.3333	46.6667	
0	X5	0	0	1.0	0	1	-2	-6.0606	5.3737	2.6869	69.798
0	X2	0	1	-1.0	0	0	0	-3.0303	2.0202	1.0101	23.2323
0	X4	0	0	-1.0	1	0	-2	-6.0606	6.0404	2.0202	46.4646
	zj	0	0	0	0	0	1	1	1	1	0.0
	cj-zj	0	0	0	0	0	-1	-1.0	-1.0	-1.0	
Iteration 6											
0	X1	1	0	0	0	0	0	0.6667	0.3333	46.6667	
0	X5	0	0	1.0	0	1	-2	-6.0606	5.3737	2.6869	69.798
0	X2	0	1	-1.0	0	0	0	-3.0303	2.0202	1.0101	23.2323
0	X4	0	0	-1.0	1	0	-2	-6.0606	6.0404	2.0202	46.4646
	zj	0	0	0	0	0	0	0	0	0	0
	cj-zj	0	0	0	0	0	0	0	0	0	

	Basic Variables							artfcl 2	artfcl3	Quantity
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0	artfcl 1	0.33	-0.67	0.34	0	1	0	0	44
0	artfcl 2	0	0	-1	-1	0	1	0	0
0	artfcl 3	0	-1	0	1	0	0	1	0
	zj	-33	1.67	.66	0	0	0	0	44
	cj-zj	0.33	-1.67	-0.66	0	0	0	0	
Iteration 2									
0	artfcl 1	0.33	-0.67	0	-0.34	1	0.34	0	44
0	X3	0	0	1	1	0	-1	0	0
0	artfcl 3	0	-1	0	1	0	0	1	0
	zj	-33	1.67	0	-.66	0	.66	0	44
	cj-zj	0.33	-1.67	0	0.66	0	-0.66	0	
Iteration 3									
0	artfcl 1	0.33	0	0	-1.01	1	0.34	-0.67	44
0	X3	0	0	1	1	0	-1	0	0
0	X2	0	1	0	-1	0	0	-1	0
	zj	-33	0	0	1.01	0	.66	1.67	44
	cj-zj	0.33	0	0	-1.01	0	-0.66	-1.67	
Iteration 4									
0	X1	1	0	0	-3.0606	3.0303	1.0303	-2.0303	133.3333
0	X3	0	0	1	1	0	-1	0	0
0	X2	0	1	0	-1	0	0	-1	0
	zj	0	0	0	0	1	1	1	0
	cj-zj	0	0	0	0	-1	-1.0	-1.0	
Iteration 5									
0	X1	1	0	0	-3.0606	3.0303	1.0303	-2.0303	133.3333
0	X3	0	0	1	1	0	-1	0	0
0	X2	0	1	0	-1	0	0	-1	0
	zj	0	0	0	0	0	0	0	0
	cj-zj	0	0	0	0	0	0	0	

C_j	Basic Variables	x_1	x_2	x_3	x_4	artfcl 1	artfcl 2	artfcl 3	artfcl 4	artfcl 5	Quantity
Iteration 1											
0	artfcl 1	0	0.33	0	0	1	0	0	0	0	0
0	artfcl 2	0	0.67	0	0.5	0	1	0	0	0	0
0	artfcl 3	0	0.34	-0.5	0	0	0	1	0	0	0
0	artfcl 4	0	0	0.5	-0.5	0	0	0	1	0	0
0	artfcl 5	1	1	1	1	0	0	0	0	1	1
	z_j	-1	-1	-1	1	0	0	0	0	0	
	$C_j - z_j$	1	1	1	1	0	0	0	0	0	
Iteration 2											
0	x_2	0	1	0	0	3.0303	0	0	0	0	0
0	artfcl 2	0	0	0	0.5	2.0303	1	0	0	0	0
0	artfcl 3	0	0	-0.5	0	-1.0303	0	1	0	0	0
0	artfcl 4	0	0	0.5	-0.5	0	0	0	1	0	0
0	artfcl 5	1	0	1	1	-3.0303	0	0	0	1	1
	z_j	-1	0	-1	-1	3.0303	0	0	0	0	1
	$C_j - z_j$	1	0	1	1	-3.0303	0	0	0	0	
Iteration 3											
0	x_2	0	1	0	0	3.0303	0	0	0	0	0
0	x_4	0	0	0	1	4.0606	2	0	0	0	0
0	artfcl 3	0	0	-0.5	0	1.0303	0	1	0	0	0
0	artfcl 4	0	0	0.5	0	2.0303	1	0	1	0	0
0	artfcl 5	1	0	1	0	-7.0909	-2	0	0	1	1
	z_j	1	0	-1	0	7.0909	2	0	0	0	1
	$C_j - z_j$	1	0	1	0	-7.0909	-2	0	0	0	
C_j	Basic Variables	x_1	x_2	x_3	x_4	artfcl 1	artfcl 2	artfcl 3	artfcl 4	artfcl 5	Quantity
0	artfcl 5	1	0	1	0	-7.0909	-2	0	0	1	1
	z_j	-1	0	-1	0	7.0909	2	0	0	0	1
	$C_j - z_j$	1	0	1	0	-7.0909	-2	0	0	0	
Iteration 4											
0	x_2	0	1	0	0	3.0303	0	0	0	0	0
0	x_4	0	0	0	1	4.0606	2	0	0	0	0
0	x_3	0	0	1	0	2.0606	0	-2	0	0	0
0	artfcl 4	0	0	0	0	1.0	1	1	1	0	0
0	artfcl 5	1	0	0	0	-9.1515	-2	2	0	1	1
	z_j	1	0	0	0	9.1515	2	-2	0	0	1
	$C_j - z_j$	1	0	0	0	-9.1515	-2	2	0	0	
Iteration 5											
0	x_2	0	1	0	0	3.0303	0	0	0	0	0
0	x_4	0	0	0	1	4.0606	2	0	0	0	0
0	x_3	0	0	1	0	2.0606	0	2	0	0	0
0	artfcl 4	0	0	0	0	1.0	1	1	1	0	0
0	x_1	1	0	0	0	-9.1515	-2	2	0	1	1
	z_j	0	0	0	0	0	0	0	0	1	0
	$C_j - z_j$	0	0	0	0	0	0	0	0	-1	
Iteration 6											
0	x_2	0	1	0	0	3.0303	0	0	0	0	0
0	x_4	0	0	0	1	4.0606	2	0	0	0	0
0	x_3	0	0	1	0	2.0606	0	-2	0	0	0
0	artfcl 4	0	0	0	0	1.0	1	1	1	0	0
0	x_1	1	0	0	0	-9.1515	-2	2	0	1	1
	z_j	0	0	0	0	0	0	0	0	0	0
	$C_j - z_j$	0	0	0	0	0	0	0	0	0	

C_j	Basic Variables	0 X1	0 X2	0 X3	0 X4	0 artfcl 1	0 artfcl 2	0 artfcl 3	0 artfcl 4	0 artfcl 5	Quantity
Iteration 1											
0	artfcl 1	-1	0.33	0	0	1	0	0	0	0	0
0	artfcl 2	0.5	-0.33	0	0	0	1	0	0	0	0
0	artfcl 3	0	0	-0.5	1	0	0	1	0	0	0
0	artfcl 4	0.5	0	0.5	-1	0	0	0	1	0	0
0	artfcl 5	1	1	1	1	0	0	0	0	1	1
	z_j	-1	1	1	-1	0	0	0	0	0	1
	$C_j - z_j$	1	1	1	1	0	0	0	0	0	
Iteration 2											
0	X1	1	-0.33	0	0	1	0	0	0	0	0
0	artfcl 2	0	-0.165	0	0	0.5	1	0	0	0	0
0	artfcl 3	0	0	-0.5	1	0	0	1	0	0	0
0	artfcl 4	0	0.165	0.5	1	0.5	0	0	1	0	0
0	artfcl 5	0	1.33	1	1	1	0	0	0	1	1
	z_j	0	-1.33	-1	-1	-1	0	0	0	0	1
	$C_j - z_j$	0	1.33	1	1	1	0	0	0	0	
Iteration 3											
0	X1	1	0	0	0	-2	-2	0	0	0	0
0	X2	0	1	0	0	-3.0303	-6.0606	0	0	0	0
0	artfcl 3	0	0	-0.5	1	0	0	1	0	0	0
0	artfcl 4	0	0	0.5	-1	1	1	0	1	0	0
0	artfcl 5	0	0	1	1	5.0303	8.0606	0	0	1	1
	z_j	0	0	-1	1	-5.0303	-8.0606	0	0	0	1
	$C_j - z_j$	0	0	1	1	5.0303	8.0606	0	0	0	

C_j	Basic Variables	0 X1	0 X2	0 X3	0 X4	0 artfcl 1	0 artfcl 2	0 artfcl 3	0 artfcl 4	0 artfcl 5	Quantity
0	artfcl 5	0	0	1	1	5.0303	8.0606	0	0	1	1
	z_j	0	0	-1	-1	-5.0303	-8.0606	0	0	0	1
	$C_j - z_j$	0	0	1	1	5.0303	8.0606	0	0	0	
Iteration 4											
0	X1	1	0	0	0	-2	2	0	0	0	0
0	X2	0	1	0	0	-3.0303	-6.0606	0	0	0	0
0	X3	0	0	1	-2	0	0	-2	0	0	0
0	artfcl 4	0	0	0	0	1	1	1	1	0	0
0	artfcl 5	0	0	0	3	5.0303	8.0606	2	0	1	1
	z_j	0	0	0	-3	-5.0303	-8.0606	-2	0	0	1
	$C_j - z_j$	0	0	0	3	5.0303	8.0606	2	0	0	
Iteration 5											
0	X1	1	0	0	0	-2	-2	0	0	0	0
0	X2	0	1	0	0	3.0303	-6.0606	0	0	0	0
0	X3	0	0	1	0	3.3535	5.3737	-0.6667	0	0.6667	0.6667
0	artfcl 4	0	0	0	0	1	1	1	1	0	0
0	X4	0	0	0	1	1.6768	2.6869	0.6667	0	0.3333	0.3333
	z_j	0	0	0	0	0	0	0	0	1	0
	$C_j - z_j$	0	0	0	0	0	0	0	0	1	
Iteration 6											
0	X1	1	0	0	0	-2	2	0	0	0	0
0	X2	0	1	0	0	-3.0303	-6.0606	0	0	0	0
0	X3	0	0	1	0	3.3535	5.3737	-0.6667	0	0.6667	0.6667
0	artfcl 4	0	0	0	0	1	1	1	1	0	0
0	X4	0	0	0	1	1.6768	2.6869	0.6667	0	0.3333	0.3333
	z_j	0	0	0	0	0	0	0	0	0	0
	$C_j - z_j$	0	0	0	0	0	0	0	0	0	

Cj	Basic Variables	0 X1	0 X2	0 X3	0 X4	0 artfcl 1	0 artfcl 2	0 artfcl 3	Quantity
Iteration 1									
0	artfcl 1	0.33	-0.67	0.34	0	1	0	0	44
0	artfcl 2	0	0	-1	-1	0	1	0	0
0	artfcl 3	0	-1	0	1	0	0	1	0
	zj	-33	1.67	66	0	0	0	0	44
	cj-zj	0.33	-1.67	-0.66	0	0	0	0	
Iteration 2									
0	artfcl 1	0.33	-0.67	0	-0.34	1	0.34	0	44
0	X3	0	0	1	1	0	-1	0	0
0	artfcl 3	0	-1	0	1	0	0	1	0
	zj	-33	1.67	0	-66	0	66	0	44
	cj-zj	0.33	-1.67	0	0.66	0	-0.66	0	
Iteration 3									
0	artfcl 1	0.33	0	0	-1.01	1	0.34	-0.67	44
0	X3	0	0	1	1	0	-1	0	0
0	X2	0	1	0	-1	0	0	-1	0
	zj	-33	0	0	1.01	0	66	1.67	44
	cj-zj	0.33	0	0	-1.01	0	-0.66	-1.67	
Iteration 4									
0	X2	0	1	0	0	3.0303	0	0	0
0	X4	0	0	0	1	2.0303	1	0	0
0	X3	0	0	1	0	1.0303	0	-1	0
0	artfcl 4	0	0	0	0	1.0	1	1	0
0	artfcl 5	1	0	0	0	-6.0909	-1	1	0
	zj	1	0	0	0	6.0909	1	-1	0
	cj-zj	1	0	0	0	-6.0909	-1	1	0
Iteration 5									
0	X2	0	1	0	0	3.0303	0	0	0
0	X4	0	0	0	1	2.0303	1	0	0
0	X3	0	0	1	0	1.0303	0	-1	0
0	artfcl 4	0	0	0	0	1.0	1	1	0
0	X1	1	0	0	0	-6.0909	-1	1	0
	zj	0	0	0	0	0	0	0	1
	cj-zj	0	0	0	0	0	0	0	-1
Iteration 6									
0	X2	0	1	0	0	3.0303	0	0	0
0	X4	0	0	0	1	2.0303	1	0	0
0	X3	0	0	1	0	1.0303	0	-1	0
0	artfcl 4	0	0	0	0	1.0	1	1	0
0	X1	1	0	0	0	-6.0909	-1	1	0
	zj	0	0	0	0	0	0	0	1
	cj-zj	0	0	0	0	0	0	0	0

D-1

LAMPIRAN D

Data Hasil Survey

FORM KUISIONER DATUM PEMILU LEGISLATIF 2009 DAN 2014 MASYARAKAT KOTA BANDUNG NAMA Yusuf
(boleh diisi/tidak)

WILAYAH BANDUNG Qus 3
(Utara/Selatan/Barat/Timur/Tengah)
PILIHAN PARTAI

Tahun	2009	2014
Partai	PKS	Golkar

Masukan Untuk Pembuat Skripsi:

FORM KUISIONER DATUM PEMILU LEGISLATIF 2009 DAN 2014 MASYARAKAT KOTA BANDUNG NAMA Yusuf
(boleh diisi/tidak)

WILAYAH BANDUNG Qus 3
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Tahun	2009	2014
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PILIHAN PARTAI

Tahun	2009	2014
Partai	PKS	Golkar

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PILIHAN PARTAI

Tahun	2009	2014
Partai	PKS	Golkar

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WILAYAH BANDUNG Qus 3
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PILIHAN PARTAI

Tahun	2009	2014
Partai	PKS	Golkar

Masukan Untuk Pembuat Skripsi:

FORM KUISIONER DATUM PEMILU LEGISLATIF 2009 DAN 2014 MASYARAKAT KOTA BANDUNG NAMA Yusuf
(boleh diisi/tidak)

WILAYAH BANDUNG Qus 3
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PILIHAN PARTAI

Tahun	2009	2014
Partai	PKS	Golkar

Masukan Untuk Pembuat Skripsi:

FORM KUISIONER DATUM PEMILU LEGISLATIF 2009 DAN 2014 MASYARAKAT KOTA BANDUNG NAMA Yusuf
(boleh diisi/tidak)

WILAYAH BANDUNG Qus 3
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PILIHAN PARTAI

Tahun	2009	2014
Partai	PKS	Golkar

Masukan Untuk Pembuat Skripsi:

FORM KUISIONER DATUM PEMILU LEGISLATIF 2009 DAN 2014 MASYARAKAT KOTA BANDUNG NAMA Yusuf
(boleh diisi/tidak)

WILAYAH BANDUNG Qus 3
(Utara/Selatan/Barat/Timur/Tengah)
PILIHAN PARTAI

Tahun	2009	2014
Partai	PKS	Golkar

Masukan Untuk Pembuat Skripsi:

FORM KUISIONER DATUM PEMILU LEGISLATIF 2009 DAN 2014 MASYARAKAT KOTA BANDUNG NAMA Yusuf
(boleh diisi/tidak)

WILAYAH BANDUNG Qus 3
(Utara/Selatan/Barat/Timur/Tengah)
PILIHAN PARTAI

Tahun	2009	2014
Partai	PKS	Golkar

Masukan Untuk Pembuat Skripsi:

FORM KUISIONER DATUM PEMILU LEGISLATIF 2009 DAN 2014 MASYARAKAT KOTA BANDUNG NAMA Yusuf
(boleh diisi/tidak)

WILAYAH BANDUNG Qus 3
(Utara/Selatan/Barat/Timur/Tengah)
PILIHAN PARTAI

Tahun	2009	2014
Partai	PKS	Golkar

Masukan Untuk Pembuat Skripsi:

FORM KUISIONER DATUM PEMILU LEGISLATIF 2009 DAN 2014 MASYARAKAT KOTA BANDUNG NAMA Yusuf
(boleh diisi/tidak)

WILAYAH BANDUNG Qus 3
(Utara/Selatan/Barat/Timur/Tengah)
PILIHAN PARTAI

Tahun	2009	2014
Partai	PKS	Golkar

Masukan Untuk Pembuat Skripsi:

FORM KUISIONER DATUM PEMILU LEGISLATIF 2009 DAN 2014 MASYARAKAT KOTA BANDUNG NAMA Yusuf
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