

## ABSTRACT

The evolving of information technology can stimulate another development in various fields, in which communications between computers with humans has been amended from time to time with the goal of communication between humans and computers can take place efficiently. TTS (*Text to Speech*) is the design of VUI (*Voice Use Interface*) application that developed from ASR (*Automatic Speech Recognition*) technology. *Cool edit pro2* is a recording and voice processing application that has function as an *auditing* in a single wave (*single waveform*). *Microsoft Speech API* (SAPI) is a layer of software that is used by the pronouncing application to communicate with *speech recognition*. It aims to change text into sound form and to determine the *pitch* frequency and *sampling* using matlab. From each word and sentence recorded using cool edit, frequency pitch of 5 Hz - 70 Hz, sampling frequency obtained 3000 Hz – 25000 Hz. While using the *Microsoft Speech API* recording pitch frequency obtained 4.46 Hz - 75 Hz, sampling frequency 3000 Hz - 29000 Hz. From the analysis of the data obtained is better to use *cool edit*, because it does not use bit mono that have been set by database using engineer intonation.

**Key words:** Capability of TTS (Text to Speech), VUI (Voice User interface), Cool Edit Pro 2 Microsoft Speech API (SAPI), frekuensi pitch.

