Abstract
Word syllabicization is a process of dividing words into syllables. It is important to do word syllabus in the Text to Speech System and Continuous Speech Recognizer processes in order to obtain optimal results. In this study the author will develop a word syllabic algorithm by applying the Rule-Based method. Rule-Based is a method created to solve a problem by describing the pattern of a problem. The results of testing the word syllabus algorithm using the Rule-Based method in Indonesian on the "Trainset Syllabification 01 40K 1 2 3 4" dataset using WER (Word Error Rate) obtained a value of 0.029. The syllabic algorithm obtained is made into an application of basic word syllabus in Indonesian. The drawback of the application made is that there are still errors in some words in Indonesian.