

## **ABSTRACT**

Optical Character Recognition (OCR) is a computer system which is used automatically to recognize a part of character coming from typewriter, letterpress and or handwriting. In the other hand, OCR is a process of transferring the text document become the computer file without having to expurgation repeat, every characters such as letter, word, sentence can be recognized precisely and read by other software, without having to type repeating and editing.

In this final project will be developed an application to identify the character at one file picture (\*.bmp) which contains character from hardcopy or other source. The extractions distinguish process using the approach of vector and region. At this process will be determined vector compiler mark with lines of character at every perception area, where each character divide into 9 regions that have same size and symmetries.

To evaluate the performance of OCR by using that method, will be conducted an examination to some input samples which is coming from document of hardcopy or other source. The result shows that this OCR system have recognition rate 86,49 % in trained font, and 63,35% in non trained font.