

## ABSTRACT

Graphology is a branch of psychology which is useful for analyzing a person's personality by handwriting. Graphologists use this science to determine a person's emotional or personality tendencies. Personality is the basic thing attached to each individual which cannot be from his appearance. Everyone has different personality, people who look neat do not necessarily have a good personality, and vice versa. In the world of work knowing each person's individual personality is very important, usually a graphologist analyzes a person's emotional or personality trends manually based on a handwritten-based personality analysis book, this method is quite time consuming and less efficient.

In this study the author will design an android-based application to identify a person's tendencies or personality through handwriting. This test was conducted to find out several personalities, such as optimistic & pessimistic emotions, social interaction characters who keep distance & do not keep, and self-confidence & low self-esteem. The test is carried out manually and with a system to determine the angle of inclination of the handwriting, to calculate spacing between words, and to calculate the size of the row height in determining the height of the letter "i" with predetermined parameters.

The results of testing the application system in this Final Project are able to identify individual emotional tendencies. The application system designed is able to identify the three personality traits quite well. Of the 35 samples of handwritten image data, there were 29 samples of image data that succeeded in achieving similarities with the three personality traits tested and got an accuracy of 82.85%.

**Keywords:** Graphology, Android, Personality Traits, Baseline of Writing, Spacing Between Words, Line Height in Determining the Height of the Letter "i"