ABSTRACT

At present, the development of telecommunications technology is growing very rapidly. One of them is a pattern recognition system. Pattern recognition system has been used and developed. One example of a pattern recognition system is widely used today is the introduction of writing.

The final task was made with the purpose to implement a system that is able to recognize the pattern of Lampung script where script is the script used Lampung Lampung basis. Order accuracy rate reaches 90%, then the system will use a technique Modified Direction Feature (MDF) extraction characteristics for which the MDF is a technique that takes feature vector from all directions and combine them into a specific feature vector in order to distinguish between the one with the script lampung others. This characteristic results of the MDF will provide input on the learning process on Hidden Markov Models Hidden Markov Model which will see the sequence characteristics and will yield probability values A, B, and Phi. Grades A, B, and Phi is used for classification.

Benefits of this thesis is to help facilitate and accelerate the learning process by using a script lampung with results expected at the end of the task using Hidden Markov Models have results better accuracy rate, reaching 93% for the introduction of 100 test data consists of 20 characters with each script consists of 5 test images.

***Keywords**: Literacy Lampung, Directio Modified Feature (MDF), Hidden Markov Model, Pattern Recognition*