

## ABSTRACT

In diagnosing and analyzing the patient's illness, a doctor would have to have enough knowledge about various diseases. Because it concerns the safety of any person. There is a mathematical way to diagnose a disease, such as by using Dempster-Shafer. Dempster-Shafer method included in the expert system that uses the data in the past to look for solutions to new cases with a Similarity value. The results of the implementation of this method is in the form of a system for diagnosis of eye diseases based on Java. As for the analysis of the implementation of the implementation of the results obtained in the form of the value of the accuracy of the comparison results and diagnosis expert system diagnosis of 86.6%, and for the error value is 13.4%.

Keyword : *Dempster-Shafer, Expert System, Eye Diseases*