

## **ABSTRACT**

*Technic of Biometric is one of technical has grown since 20 years a go. To identification person by physical or behavioral. If we search more clearly about pattern of physical and behavioral it can show us that it has some information. That's the clue for researcher to expand some application from those of information.*

*In this project nose will use for research object.. Every image of nose will taken and processed to find information what kind of parameter can make every people are different .Some ways will used in Pre-processing, there are tecnic for grayscale, median filter, image adjustment, and black white to make this image ready join to characteristic extraction.*

*After finish from Pre-processing step, image will get extraction and every characteristic value nose image will be save into database..For testing process so some image nose for same person will be taken and see the capability if system can indetification that person. There are 7 characteristic will take from nose image.*

*From these characteristic will researching pixel values from every human. Identification process use K-NN algorithm where every human has each class. From this project the accuration is 82.5 % for 15 people where every person took 5 exercise images and 5 test images.*

*keywords: Biometric, Pre-Processing, Grayscale, Median Filter, Image Adjustment, K-NN*