

## CHAPTER 6

### CONCLUSION

The implementation of using Adaptive Freeman Chain Code algorithm and Adaptive Change Consecutive Characters algorithm can recognize part of eye with 60% success rate and mouth with 75% success rate. The first step taken in this research is determine skin detection then image erosion and edge detection. After that the Adaptive Freeman Chain Code algorithm process is done to get a short pattern on the object, then Area of Interest to determine the object to be studied next. Then the possible face process is done to determine the position of the eyes and mouth so that it can be detected through the pattern matching using the Adaptive Change Consecutive Characters. Modifications at Change Consecutive Characters algorithm is to overcome detection the similarity of patterns in the eyes and mouth with different degrees of multiples of 90 degrees .

The suggestion for further research is change the composition in the skin detection process in order to resolve color differences in people or users can specify variants of skin composition.