

CHAPTER 6

CONCLUSION

The conclusion of this study is the ECB DES Mode Algorithm and CBC mode can be implemented on smartphones, especially Android. The encryption and decryption process of the CBC DES mode algorithm has a faster time than ECB mode. The total time difference from the average encryption results between ECB and CBC modes is 2296,812 milliseconds. The total time difference from the average decryption result between ECB and CBC modes is 2376,268 milliseconds.

The results of this study are CBC DES mode more suitable for smartphones, especially Android. Because CBC DES mode has better encryption and decryption speeds.

Suggestions for further research is that the time needed for encryption and decryption on the ECB DES Mode Algorithm can be further shortened. And the image resolution can be higher, not only the maximum resolution of 387 x 791.