Spring 2023 CSCI 350 - PE1 Computer Security Basics

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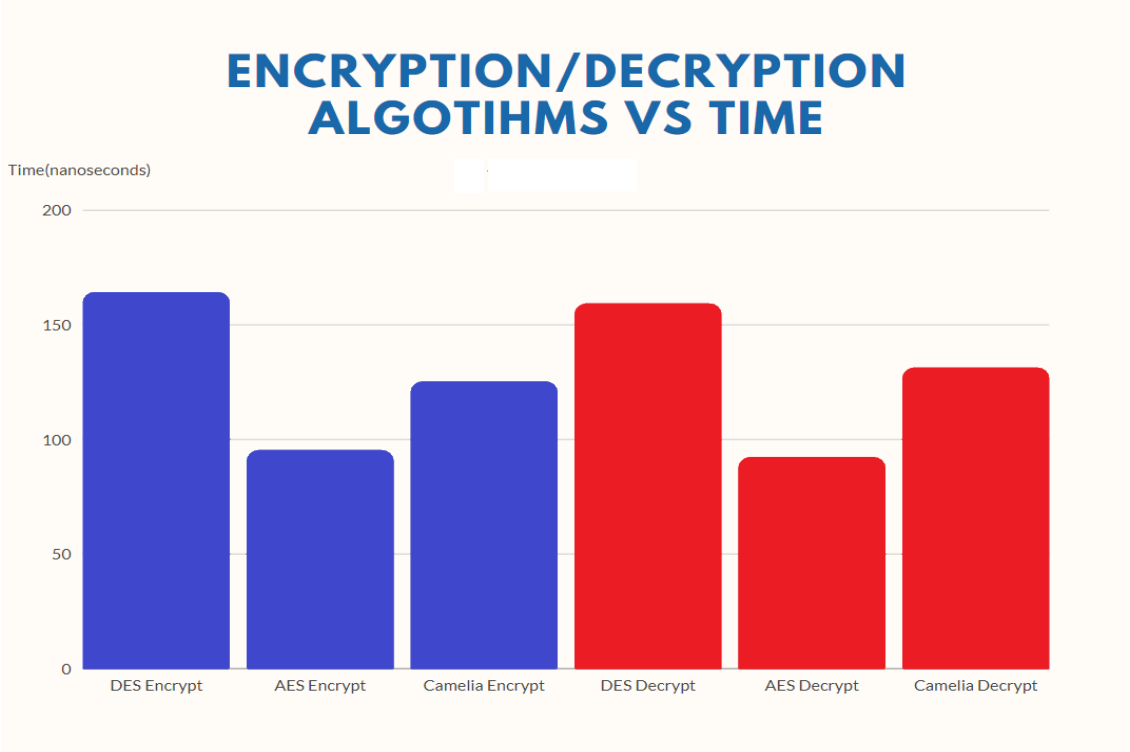
Assignment 3

Report



Results :

	DES	AES	Camellia
Average Encryption Time (nanoseconds)	164	95	125
Average Decryption Time (nanoseconds)	159	92	131

Each algorithm was used to encrypt and decrypt `100,000` times.

From this result, we can see that DES is the slowest algorithm, followed by Camellia with AES being the fastest encrypt and decryption algorithm of the three. This is to be expected and can be explained by several factors:

- Although Camellia is said to be comparable to AES, in terms of raw speed, AES performs less rounds/operations compared to both DES and Camellia.
- AES is more efficient, newer, and more developed than DES. The same can be said about Camellia to DES.