

RSA Assignment

Name: Karim Mahmoud Kamal Mohamed

Sec: 2

B.N: 10

Supervised by

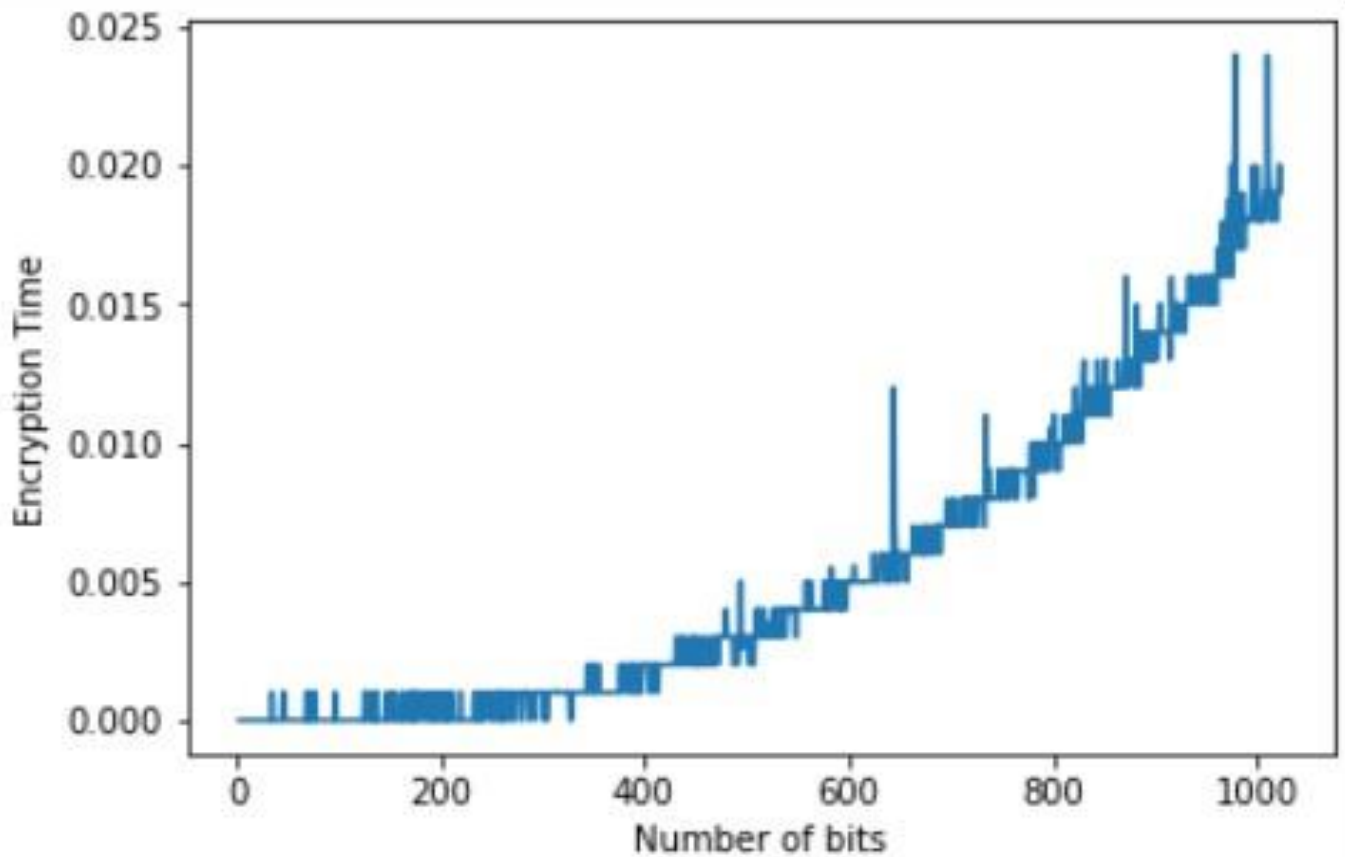
Dr. Samir Shaheen

Eng. Khaled Moataz

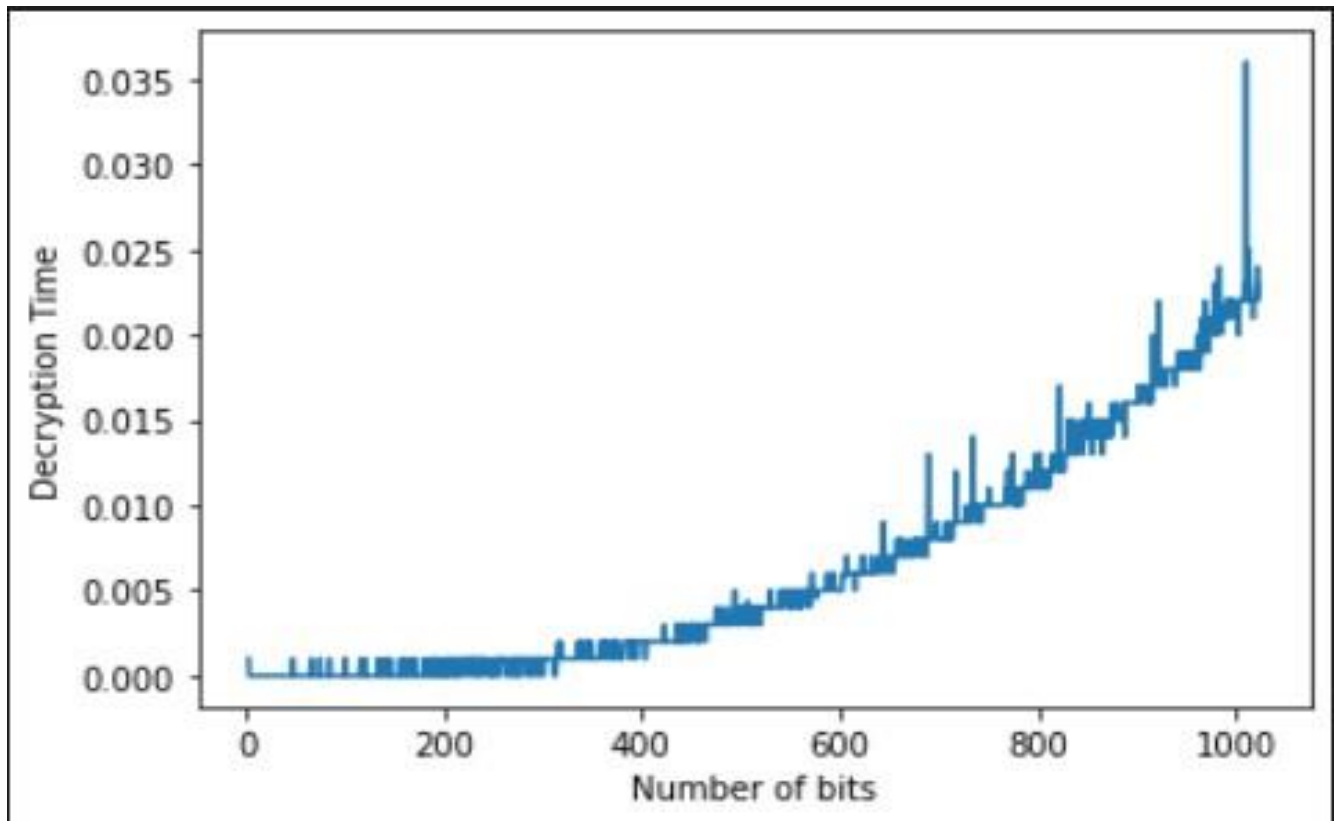
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Analysis results and conclusions:

The Encryption Time on the y-axis and the different number of bits on the x-axis → I notice that the graph is exponential which means when we increase the number of bits that used to generate the keys ($2^{\text{number of bits}}$), we take much more time to encrypt.



The Decryption Time on the y-axis and the different number of bits on the x-axis → I notice that the graph is exponential which means when we increase the number of bits that used to generate the keys ($2^{\text{number of bits}}$), we take much more time to decrypt.



The Attack Time on the y-axis and the different number of bits on the x-axis → I notice that the graph is exponential which means when we increase the number of bits that used to generate the keys ($2^{\text{number of bits}}$), we take much more time to attack.

Note: I attack using brute force technique so I try all possible values for p and q till root n.

The graph is till 32-bit.

