

# RSA Assignment

## Analysis Results

**Name:** Moaz Mohamed Hassan Bayoumi

**Sec:** 2

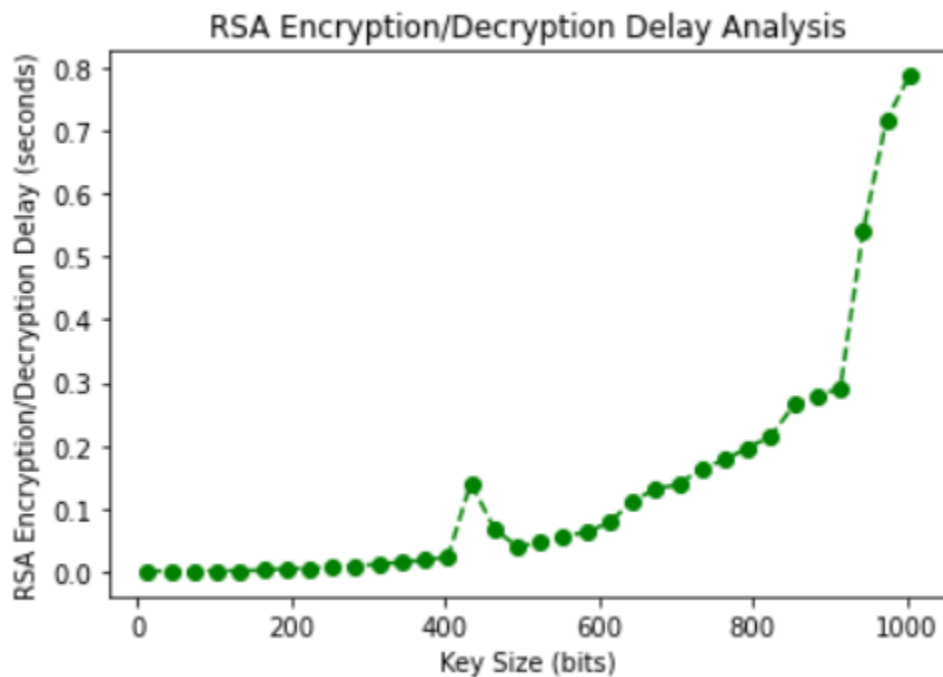
**B.N.:** 25

**Code:** 9203532

**The first graph:**

Plotting different bits numbers of **keys** versus time of **Encryption/Decryption**.

**Note:** these results are obtained from original code.

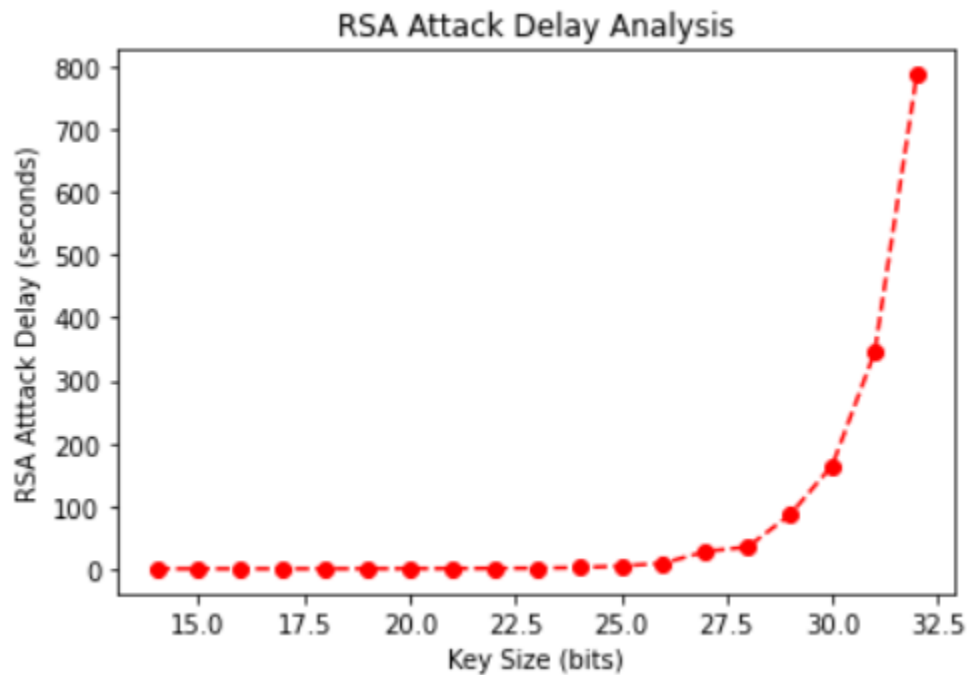


**Comment:** We see that increasing key size after 900 bits results in a big difference in encryption time.

### The second graph:

Plotting different bits numbers of **keys** versus time of **attacking** RSA and obtaining private key.

**Note:** these results are obtained from original code.



**Comment:** We see that increasing key size after 28 bits results in a big difference.

Also attacking large keys like 1024 bits or 2048 bits may take days of continuous work, so it is mathematically infeasible.