ENCRYPTION AND DECRYPTION
RSA ALGORITHM

Algorithm for encryption

1. Choose two large primes p and q (typically greater than 10^100)
2. Compute n= p*q and z= (p−1) *(q−1)
3. Find e with the condition gcd(z,e)=1
4. Choose a number d, relatively prime to z [d=(1/e) mod z]
5. Read a character from plain text, m
6. find c= m^e(mod(n))
7. Write the encrypted char into file

Algorithm for decryption

1. Read a character from cipher text, c
2. find m= c^d(mod(n))
3. Write the decrypted character into file