



## RSA Algorithm :

1. P and Q are two prime number.  $P=7$  and  $Q=17$ . Take public key  $E=5$ . If plain text value is 6 , then what will be cipher text value according to RSA algorithm ? Again calculate plain text value from cipher text.
2. In each of the following , the two prime number p and q , and the message M to be encrypted using RSA are given. For each case, determine the private and public key and the encrypted message show the steps:
  - a)  $P=7, Q=11, M=6$
  - b)  $P=11, Q=13, M=9$
  - c)  $P=17, Q=31, M=5$