from math import gcd

```
# defining a function to perform RSA approach
def RSA(p: int, q: int, message: int):
 #calculating n
 n = p * q
 #calculating totient, t
  t = (p - 1) * (q - 1)
 # selecting public key, e
  for i in range(2, t):
    if gcd(i, t) == 1:
     e = i
      break
 # selecting private key, d
  j = 0
 while True:
    if (j * e) % t == 1:
     d = j
      break
    j += 1
  # performing encryption
  ct = (message ** e) % n
  print(f"Encrypted message is: {ct}")
 # performing decryption
  mes = (ct ** d) % n
  print(f"Decrypted message is: {mes}")
# Testcase - 1
RSA(p=53, q=59, message=89)
# Testcase - 2
RSA(p=3, q=7, message=12)
Encrypted message is: 1394
     Decrypted message is: 89
     Encrypted message is: 3
     Decrypted message is: 12
```