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#Write a Java/C/C++/Python program to implement RSA algorithm

import math

message = int(input("Enter the message to be encrypted: "))

p = 7

q = 17

n = p\*q

m = (p-1)\*(q-1)

for i in range(2,m):

    if math.gcd(i,m) == 1:

        e = i

        break

for i in range(m):

    if (e\*i) % m == 1:

        d = i

        break

def encrypt(me):

    c = pow(message, e, n)

    return c

def decrypt(ct):

    p = pow(ct, d, n)

    return p

print("Original Message is: ", message)

CT = encrypt(message)

print("Encrypted Message is: ", CT)

PT = decrypt(CT)

print("Decrypted Message is:", PT)

**OUTPUT:**

Enter the message to be encrypted: 67

Original Message is: 67

Encrypted Message is: 16

Decrypted Message is: 67