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In [2]: #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)
        Enter the message to be encrypted: 8
        Original Message is: 8
        Encrypted Message is: 43
        Decrypted Message is: 8
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