

TESTCASE#01:

Microsoft Visual Studio Debug Console

```

                                ENCRYPTION AND DECRYPTION USING RSA ALGORITHM
                                =====

Enter any two distinct prime numbers (whose product is less than 128): 3
11

Enter the message want to encrypt : assemblylanguage

Calculated values are :
=====

The value of first prime number is: 3
The value of second prime number is: 11
The value of n : 33
The value of k : 20
The value of e : 19

-----ENCRYPTED CONTEXT-----

Encrypted Key values are : +97 +103 +103 +116 +124 +113 +108 +100 +108 +97 +122 +115 +117 +97 +115 +116

The encrypted data is : a g g t | q l d l a z s u a s t

-----DECRYPTED CONTEXT-----

The decrypted key values are : +97+115+115+101+109+98+108+121+108+97+110+103+117+97+103+101

The decrypted message is : assemblylanguage

C:\Users\pcs\source\repos\Project10\Debug\Project10.exe (process 3692) exited with code 0.
Press any key to close this window . . .
```

TESTCASE#02:

```

                                ENCRYPTION AND DECRYPTION USING RSA ALGORITHM
                                =====

Enter any two distinct prime numbers (whose product is less than 128): 5
7

Enter the message want to encrypt : missquratulain

Calculated values are :
=====

The value of first prime number is: 5
The value of second prime number is: 7
The value of n : 35
The value of k : 24
The value of e : 23

-----ENCRYPTED CONTEXT-----

Encrypted Key values are : +123 +100 +120 +120 +129 +117 +98 +97 +116 +117 +99 +97 +100 +110

The encrypted data is : { d x x ü u b a t u c a d n

-----DECRYPTED CONTEXT-----

The decrypted key values are : +109+105+115+115+113+117+114+97+116+117+108+97+105+110

The decrypted message is : missquratulain

C:\Users\pcs\source\repos\Project10\Debug\Project10.exe (process 2960) exited with code 0.
Press any key to close this window . . .

```

TESTCASE#03:

```
Microsoft Visual Studio Debug Console

ENCRIPTION AND DECRYPTION USING RSA ALGORITHM
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Enter any two distinct prime numbers (whose product is less than 128): 8
3

Enter the message want to encrypt : ammar
Invalid input
C:\Users\pcs\source\repos\Project10\Debug\Project10.exe (process 7736) exited with code 0.
Press any key to close this window . . .
```

TESTCASE#04:

```

                                ENCRYPTION AND DECRYPTION USING RSA ALGORITHM
                                =====

Enter any two distinct prime numbers (whose product is less than 128): 7
11

Enter the message want to encrypt : I LOVE PAKISTAN

Calculated values are :
=====

The value of first prime number is: 7
The value of second prime number is: 11
The value of n : 77
The value of k : 60
The value of e : 59

-----ENCRYPTED CONTEXT-----

Encrypted Key values are : +29 +25 +69 +28 +42 +76 +25 +43 +91 +75 +29 +90 +51 +91 +66

The encrypted data is : ↕ ↓ E L * L ↓ + [ K ↕ Z 3 [ B

-----DECRYPTED CONTEXT-----

The decrypted key values are : -183-224-180-177-170-187-224-176-191-181-183-173-172-191-178

The decrypted message is : I LOVE PAKISTAN

C:\Users\pcs\source\repos\Project10\Debug\Project10.exe (process 2572) exited with code 0.
Press any key to close this window . . .

```

TESTCASE#05:

```
=====
ENCIPHERMENT AND DECRYPTERMENT USING RSA ALGORITHM
=====
```

```
Enter any two distinct prime numbers (whose product is less than 128): 7
11
```

Enter the message want to encrypt : Encryption and Decryption

Calculated values are :
=====

```
The value of first prime number is: 7
The value of second prime number is: 11
The value of n : 77
The value of k : 60
The value of e : 59
```

-----ENCRYPTED CONTEXT-----

Encrypted Key values are : +76 +166 +122 +126 +133 +149 +123 +156 +132 +166 +25 +97 +166 +154 +25 +61 +127 +122 +126 +133 +149 +123 +156 +132 +166

The encrypted data is : `L a z ~ à ò { £ ä ¢ ↓ a ¢ Ü ↓ = ∆ z ~ à ò { £ ä ¢`

-----DECRYPTED CONTEXT-----

The decrypted key values are : +69+110+99+114+121+112+116+105+111+110+32+97+110+100+32+68+101+99+114+121+112+116+105+111+110

The decrypted message is : Encryption and Decryption

```
C:\Users\pcs\source\repos\Project10\Debug\Project10.exe (process 4832) exited with code 0.  
Press any key to close this window . . .
```