

// -----Alice-----

```
sanket@sanket-badjate:~/Desktop/sanket_codes/I&CS/RSA$ javac Alice.java
```

```
sanket@sanket-badjate:~/Desktop/sanket_codes/I&CS/RSA$ java Alice
```

=====Server Side(ALICE)=====

waitinng for connection on port 8088

Accepted connection from /127.0.0.1:43824

Public Key of Bob(Used for encryption):

Public key $\{e,n\} = \{3, 33\}$

ENter Plain Text (integer) to be encypted: PT:

7

Generated Cipher Text CT: 13

// -----Bob-----

```
sanket@sanket-badjate:~/Desktop/sanket_codes/I&CS/RSA$ javac Bob.java
```

```
sanket@sanket-badjate:~/Desktop/sanket_codes/I&CS/RSA$ java Bob
```

====Client Side====(BOB)

Connected to /127.0.0.1:8088

Enter Prime number (P):11

Enter Prime number (Q):3

$\phi = 20$

$n=33$

Public key $\{e,n\} = \{3, 33\}$

Private key $\{d,n\} = \{27, 33\}$

Waiting for Clpher Text from Alice.....)

Received CT: 13

Decrypted Plain Text: 7