```
Program: MutualServer.java
import java.io.*;
import java.net.*;
public class MutualServer implements Runnable {
  Socket socket = null;
  static ServerSocket ss;
  MutualServer(Socket newSocket) {
    this.socket = newSocket;
  public static void main(String args[]) throws IOException {
    ss = new ServerSocket(7000);
    System.out.println("||=======|| MOIN MN (211P030) ||=======||");
    System.out.println("||=======|| Server has Started ||=======||");
    while (true) {
      Socket s = ss.accept();
      MutualServer es = new MutualServer(s);
      Thread t = new Thread(es);
      t.start();
    }
  public void run() {
    try {
      BufferedReader in = new BufferedReader (new
InputStreamReader(socket.getInputStream()));
      while (true) {
        System.out.println(in.readLine());
    } catch (Exception e) {
  }
Program: ClientOne.java
import java.io.*;
import java.net.*;
public class ClientOne {
  public static void main(String args[]) throws IOException {
    Socket s = new Socket("localhost", 7000);
    PrintStream out = new PrintStream(s.getOutputStream());
    ServerSocket ss = new ServerSocket(7001);
    Socket s1 = ss.accept();
    BufferedReader in1 = new BufferedReader (new
InputStreamReader(s1.getInputStream()));
    PrintStream out1 = new PrintStream(s1.getOutputStream());
    BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
    String str = "Token";
    while (true) {
      if (str.equalsIgnoreCase("Token")) {
        System.out.println("Do you want to send some data?\n Yes / No: ");
        str = br.readLine();
        if (str.equalsIgnoreCase("Yes")) {
          System.out.print("Enter the Data: ");
          str = br.readLine();
          out.println(str);
        out1.println("Token");
      System.out.println("Waiting for Token");
      str = in1.readLine();
    }
  }
```

```
MN\Downloads\DC-Expt-7> java ClientOne
```

```
InputStreamReader(s2.getInputStream()));
    PrintStream out2 = new PrintStream(s2.getOutputStream());
    BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
    String str;
    while (true) {
      System.out.println("Waiting for Token");
      str = in2.readLine();
      if (str.equalsIgnoreCase("Token")) {
        System.out.println("Do you want to send some data?");
        System.out.print("Yes / No: ");
        str = br.readLine();
         if (str.equalsIgnoreCase("Yes")) {
           System.out.print("Enter the Data: ");
           str = br.readLine();
           out.println(str);
        out2.println("Token");
    }
  }
PS C:\Users\Moin MN\Downloads\DC-Expt-7> javac .\MutualServer.java
PS C:\Users\Moin MN\Downloads\DC-Expt-7> javac .\ClientOne.java
PS C:\Users\Moin MN\Downloads\DC-Expt-7> javac .\ClientTwo.java
                                                                             want to send
PS C:\Users\Moin MN\Downloads\DC-Expt-7>
                                                                     to send some data?
PS C:\Users\Moin MN\Downloads\DC-Expt-7> java MutualServer
  ||======|| MOIN MN (211P030) ||======||
                                                                                  ClientOne Here
  ||======|| Server has Started ||======||
```

public static void main(String args[]) throws IOException {

PrintStream out = new PrintStream(s.getOutputStream());

Socket s = new Socket("localhost", 7000);

Socket s2 = new Socket("localhost", 7001); BufferedReader in2 = new BufferedReader (new

Program: ClientTwo.java import java.io.*; import java.net.*;

public class ClientTwo {

Hii, ClientOne Here! Hii, ClientTwo Here!

Go Green! Go Blue!

```
Enter PS C:\Users\Moin MN\Downloads\DC-Expt-7> java ClientTwo
Waiting for Token
Do you want to send some data?
Yes / No: yes
the Data: Hii, ClientTwo Here!
Waiting for Token
Do you want to send some data?
Yes / No: yES
Enter the Data: Go Blue!
Waiting for Token
```