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Aim : To Implement the Inter process communication using java.

Code:

Server.java

```
import java.util.*;
import java.io.*;
import java.net.*;
public class Server {
public static void main(String args[]) throws Exception{
//Server server = new Server();
ServerSocket MyServer = new ServerSocket(5000);
Socket ss = MyServer.accept();
DataInputStream din =new DataInputStream(ss.getInputStream());
DataOutputStream dout=new DataOutputStream(ss.getOutputStream());
BufferedReader br=new BufferedReader(new
InputStreamReader(System.in));
Server server = new Server();
String str="",str2="";
int sum = 0;
while(!str.equals("stop")){
str=din.readUTF();
if(str.equals("stop"))
break;
sum = sum + Integer.parseInt(str);
}
dout.writeUTF(Integer.toString(sum));
dout.flush();
din.close();
ss.close();
MyServer.close();
}
}
```

Client.java

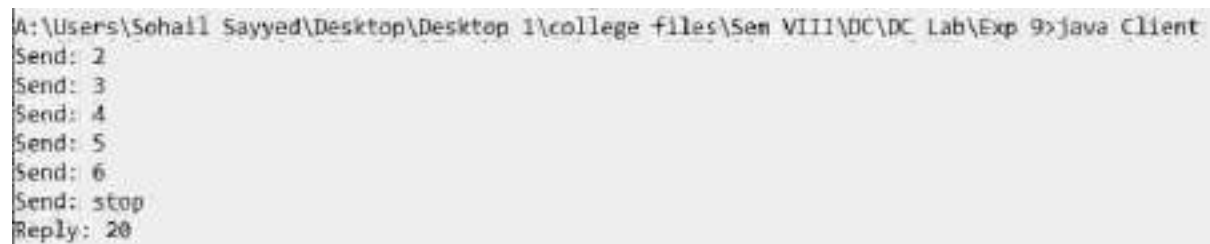
```
import java.io.*;
import java.util.*;
```

```

import java.net.*;
public class Client
{
    public static void main(String args[])throws Exception
    {
        String send="",r="";
        Socket MyClient = new Socket("127.0.0.1",5000);
        DataInputStream din=new
        DataInputStream(MyClient.getInputStream());
        DataOutputStream dout = new
        DataOutputStream(MyClient.getOutputStream());
        Scanner sc = new Scanner(System.in);
        while(!send.equals("stop")){
            System.out.print("Send: ");
            send = sc.nextLine();
            dout.writeUTF(send);
        }
        dout.flush();
        r=din.readUTF();
        System.out.println("Reply: " + r);
        dout.close();
        din.close();
        MyClient.close();
    }
}

```

Output:



```

A:\Users\Sohail Sayyed\Desktop\Desktop 1\college files\Sem VIII\DC\DC Lab\Exp 9>java Client
Send: 2
Send: 3
Send: 4
Send: 5
Send: 6
Send: stop
Reply: 20

```

Conclusion:

We have started the Server and send messages until Client send the stop message and get the reply.