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Subject: Computer Network

Assignment no 5 Title:

Socket Programming using C/C++/Java. a. TCP Client, TCP Server.

Code: Server code :   import java.net.*;   import

```
java.io.*;   class

MyServer{

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

ServerSocket ss=new ServerSocket(3333);

Socket s=ss.accept();

DataInputStream din=new DataInputStream(s.getInputStream());

DataOutputStream dout=new DataOutputStream(s.getOutputStream());

BufferedReader br=new BufferedReader(new InputStreamReader(System.in));


String str="",str2="";

while(!str.equals("stop")){   str=din.readUTF();

    System.out.println("client says: "+str);   str2=br.readLine();
    dout.writeUTF(str2);

dout.flush();

}   din.close();

s.close();   ss.close();

}}
```

Client Code :

```
import java.net.*;

import
```

```java
java.io.*;   class

MyClient{

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

Socket s=new Socket("localhost",3333);

DataInputStream din=new DataInputStream(s.getInputStream());

DataOutputStream dout=new DataOutputStream(s.getOutputStream());

BufferedReader br=new BufferedReader(new InputStreamReader(System.in));

String str="",str2="";   while(!str.equals("stop

")){

str=br.readLine();

dout.writeUTF(str);   dout.flush();

str2=din.readUTF();

System.out.println("Server says: "+str2);

}   dout.close();
s.close();
}}
```

OUTPUT :

```
C:\Users\sanja\Downloads\java>java MyClient
hello
Server says: hello
i am client
Server says: Hello i am server
```

```
C:\Users\sanja\Downloads\java>java MyServer
client says: hello
hello
client says: i am client
Hello i am server
```