PRACTICAL-4

AIM: Implement Concurrent TCP Server programming in which more than one client can connect and communicate with Server for sending the string and server returns the reverse of string to each of client.

PROGRAM:

Server: import java.net.*; import java.io.*; public class server public static void main(String[] args) throws Exception int count=1; System.out.println("Server is running...."); ServerSocket ss=new ServerSocket(7878); while(true) { new RevThread(ss.accept(),count).start(); System.out.println(count+"client connected"); count++; } class RevThread extends Thread Socket s=null; public RevThread(Socket socket,int count) s=socket; n=count; public void run() try while(true) System.out.println("receiving from client"+n); DataInputStream din=new DataInputStream(s.getInputStream()); String str=din.readUTF(); System.out.println("processing data of client"+n); StringBuffer rev=new StringBuffer();

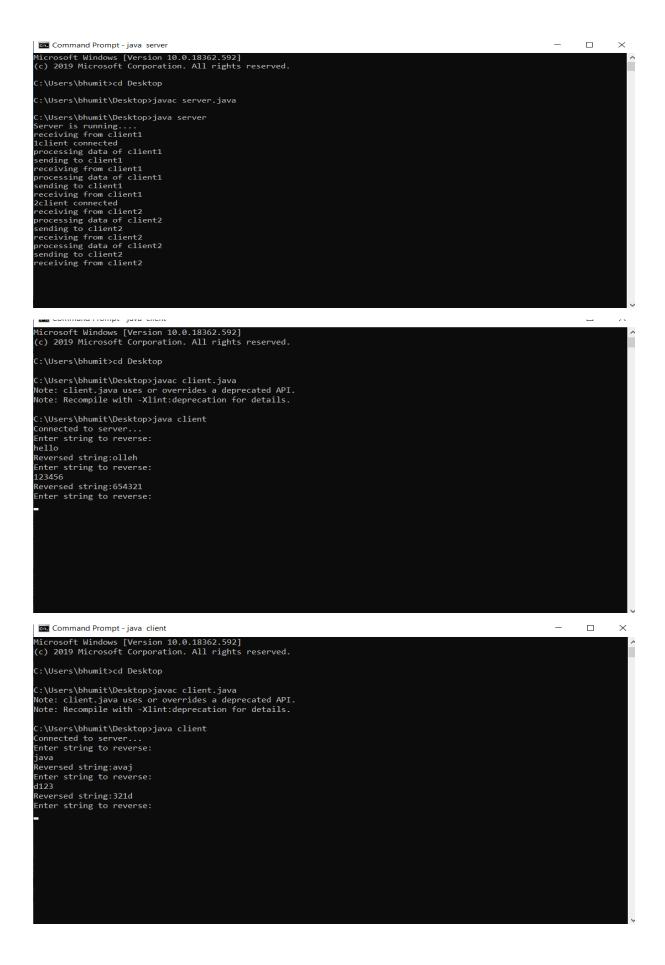
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rev=rev.append(str);

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rev=rev.reverse();
          String revStr=new String(rev);
          System.out.println("sending to client"+n);
          DataOutputStream dout=new DataOutputStream(s.getOutputStream());
          dout.writeUTF(revStr);
     catch(IOException e)
        System.out.println(e);
Client:
import java.net.*;
import java.io.*;
public class client
  public static void main(String[] args) throws Exception
     Socket s=new Socket("127.0.0.1",7878);
     if(s.isConnected())
       System.out.println("Connected to server...");
     while(true)
       System.out.println("Enter string to reverse:");
       DataInputStream in=new DataInputStream(System.in);
       String str=in.readLine();
       DataOutputStream dout=new DataOutputStream(s.getOutputStream());
       dout.writeUTF(str);
       DataInputStream din=new DataInputStream(s.getInputStream());
       String rev=din.readUTF();
       System.out.println("Reversed string:"+rev);
      } } }
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OUTPUT:

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