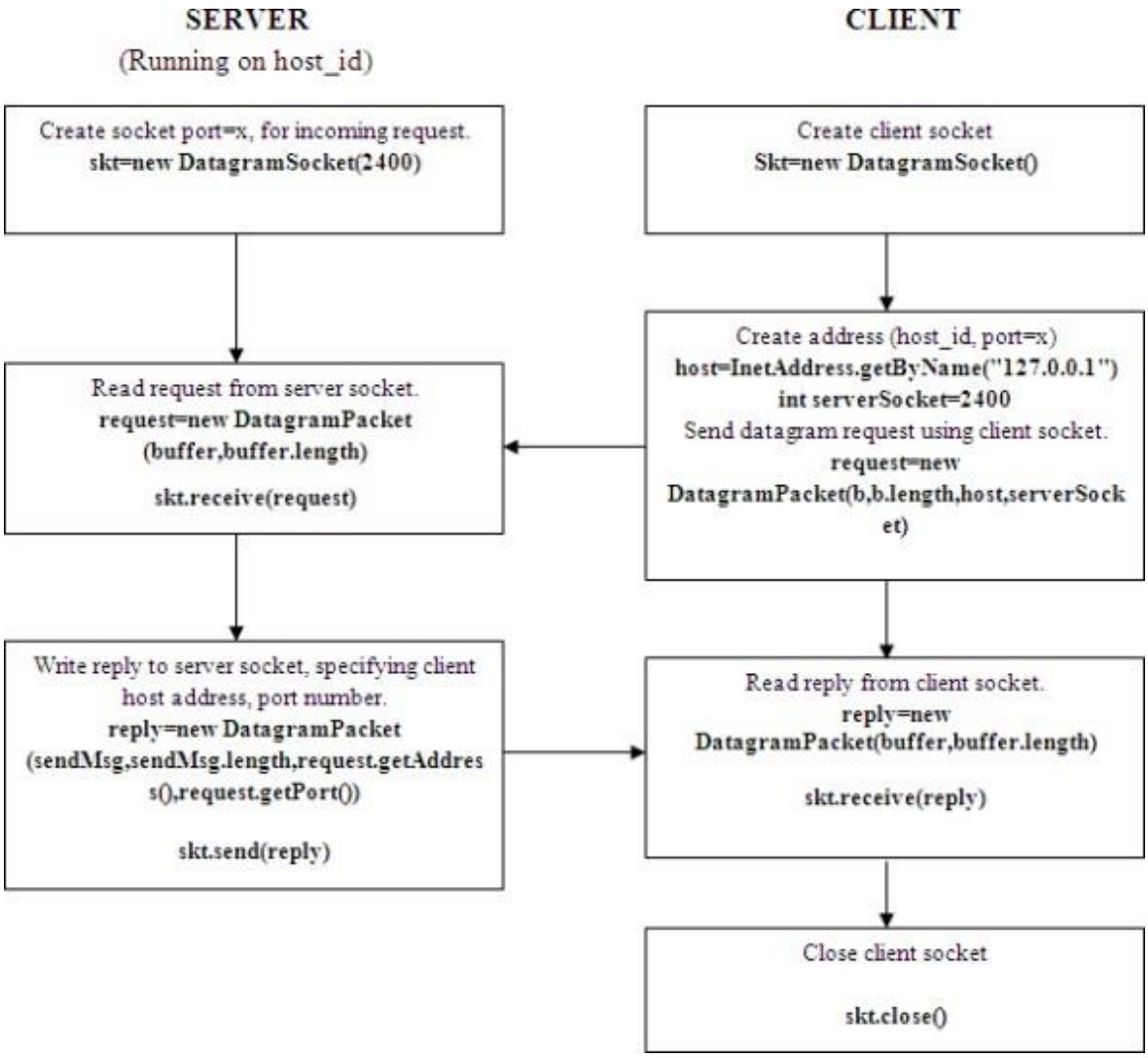
Program- 8

Write a program on datagram socket for client/server to display the messages on client side, typed at the server side.

A datagram socket is the one for sending or receiving point for a packet delivery service. Each packet sent or received on a datagram socket is individually addressed and routed. Multiple packets sent from one machine to another may be routed differently, and may arrive in any order.



SourceCode:

UDP CLIENT

```
import java.io.*;
import java.net.*;
public class UDPC
{
public static void main(String[] args)
{
DatagramSocket skt;
try
{
skt=new DatagramSocket();
String msg= "text message ";
byte[] b = msg.getBytes();
InetAddress host=InetAddress.getByName("127.0.0.1");
int serverSocket=6788;
DatagramPacket request =new DatagramPacket (b,b.length,host,serverSocket);
skt.send(request);
byte[] buffer =new byte[1000];
DatagramPacket reply= new DatagramPacket(buffer,buffer.length);
skt.receive(reply);
System.out.println("client received:" +new String(reply.getData()));
skt.close();
}
catch(Exception ex)
{
}
}
}
```

UDP SERVER

```
import java.io.*;
import java.net.*;
public class UDPS
{
public static void main(String[] args)
{
DatagramSocket skt=null;
try
{
skt=new DatagramSocket(6788);
byte[] buffer = new byte[1000];
while(true)
{
DatagramPacket request = new DatagramPacket(buffer,buffer.length);
skt.receive(request);
String[] message = (new String(request.getData())).split(" ");
byte[] sendMsg= (message[1]+ " server processed").getBytes();
DatagramPacket reply = new
DatagramPacket(sendMsg,sendMsg.length,request.getAddress(),request.getPort());
skt.send(reply);
}
}
catch(Exception ex)
{
}
}
}
```

OUTPUT:
SERVER SIDE

```
ser@user-OptiPlex-3050:~$ cd Desktop

user@user-OptiPlex-3050:~/Desktop$ javac UDPS.java
user@user-OptiPlex-3050:~/Desktop$ java UDPS
```

CLIENT SIDE

```
user@user-OptiPlex-3050:~/Desktop$ javac UDPC.java

user@user-
OptiPlex-
3050:~/Desktop$
java UDPC client
received:message
server processed
```