: A client server based program using UDP to find the factorial of the entered number.

1. udpServerFact.java :

```java
import java.io.*;
import java.net.*;
public class udpServerFact
{
public static void main(String args[])
{
try
{
DatagramSocket ds = new DatagramSocket(2000);
byte b[] = new byte[1024];
DatagramPacket dp = new DatagramPacket(b,b.length);
ds.receive(dp);
String str = new String(dp.getData(),0,dp.getLength());
System.out.println(str);
int a= Integer.parseInt(str);
int f = 1, i;
String s= new String();
for(i=1;i<=a;i++)
{
f=f*i;
}
s=Integer.toString(f);
String str1 = "The Factorial of " + str + " is : " + f;
byte b1[] = new byte[1024];
b1 = str1.getBytes();
DatagramPacket dp1 = new
DatagramPacket(b1,b1.length,InetAddress.getLocalHost(),1000);
ds.send(dp1);
}
catch(Exception e)
{
e.printStackTrace();
}
}
}
```

2. udpClientFact.java:

```java
import java.io.*;
import java.net.*;

public class udpClientFact
{
public static void main(String args[])
{
try
{
DatagramSocket ds = new DatagramSocket(1000);
BufferedReader br = new BufferedReader(new
```

```
InputStreamReader(System.in));
System.out.println("Enter a number : ");
String num = br.readLine();
byte b[] = new byte[1024];
b=num.getBytes();
DatagramPacket dp = new
DatagramPacket(b,b.length,InetAddress.getLocalHost(),2000);
ds.send(dp);
byte b1[] = new byte[1024];
DatagramPacket dp1 = new DatagramPacket(b1,b1.length);
ds.receive(dp1);
String str = new String(dp1.getData(),0,dp1.getLength());
System.out.println(str);
}
catch(Exception e)
{
e.printStackTrace();
}
}

}
```

Posted 18th December 2016 by Anonymous

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