Calculating Factorial

Client.java

```java
import java.net.Socket;
import java.io.*;
public class Client {
    public static void main(String[] args){
        try{
            System.out.println("Connection started");
            Socket soc = new Socket("localhost",9806);
            BufferedReader userInput = new BufferedReader(new InputStreamReader(System.in));
            System.out.println("Enter a number");

            int num = Integer.parseInt(userInput.readLine());

            PrintWriter out = new PrintWriter(soc.getOutputStream(),true);
            out.println(num);

            BufferedReader in = new BufferedReader(new InputStreamReader(soc.getInputStream()));
            System.out.println(in.readLine());
        }catch (Exception e){
            e.printStackTrace();
        }
    }
}
```

Server.java

```java
import java.io.BufferedReader;

import java.io.InputStreamReader;

import java.io.PrintWriter;

import java.util.*;

import java.net.Socket;

import java.net.ServerSocket;

public class Server {

    public static void main(String[] args){

        try {

            System.out.println("Waiting for clients..");

            ServerSocket ss = new ServerSocket(9806);

            Socket s = ss.accept();

            System.out.println("Connection Established");

            BufferedReader in = new BufferedReader(new
InputStreamReader(s.getInputStream()));

            int num = Integer.parseInt(in.readLine());

            PrintWriter out = new PrintWriter(s.getOutputStream(),true);

            out.println("Factorial of " + num + " is: " + calculatefact(num));

        }catch (Exception e){

            e.printStackTrace();

        }

}

static int calculatefact(int number){

        int fact = 1;
```

```
        for(int i=1;i<=number;i++){
            fact = fact*i;
        }
        return fact;
    }
}
```