

### **myInterface.java**

```
import java.rmi.*;
public interface myInterface extends Remote
{
    double fact(int i)throws RemoteException;
}
```

### **myServer.java**

```
import java.rmi.*;
import java.rmi.server.*;
public class myServer extends UnicastRemoteObject implements myInterface
{
    public myServer()throws RemoteException
    {
        super();
    }

    public double fact(int i)throws RemoteException
    {
        int f=1;
        int n=1;
        while(n<=i)
        {
            f=f*n;
            n++;
        }
        return(f);
    }

    public static void main(String args[])
    {
        try{
            myServer ms=new myServer();
            Naming.rebind("rmi://localhost:5000/myInterface",ms);
/* bolded area must replace with your computer name */
            System.out.print("Start...");

        }

        catch(Exception ex)
        {
            System.out.println(ex.getMessage());
        }
    }
}
```

```
}  
}
```

### **myClient.java**

```
import java.io.*;  
import java.rmi.*;  
public class myClient  
{  
    public static void main(String args[])throws IOException,RemoteException  
    {  
        int no;  
        BufferedReader br=new BufferedReader(new InputStreamReader(System.in));  
        System.out.print("Enter a no:");  
        no=Integer.parseInt(br.readLine());  
        try{  
  
            myInterface mi=(myInterface)Naming.lookup("rmi://localhost:5000/myInterface");  
            double f=mi.fact(no);  
            System.out.print("Factorial of "+no+" is:"+f );  
  
        }  
        catch(Exception ex)  
        {  
        }  
    }  
}
```

### **Steps**

C:\Windows\System32\cmd.exe - rmiregistry 5000

```
Microsoft Windows [Version 10.0.19045.2251]
(c) Microsoft Corporation. All rights reserved.

C:\Users\mdabu\Desktop\mca\semester3\dsc\dscc_rmi_factorial\src>javac --release 8 *.java

C:\Users\mdabu\Desktop\mca\semester3\dsc\dscc_rmi_factorial\src>rmic myServer
Warning: generation and use of skeletons and static stubs for JRMP
is deprecated. Skeletons are unnecessary, and static stubs have
been superseded by dynamically generated stubs. Users are
encouraged to migrate away from using rmic to generate skeletons and static
stubs. See the documentation for java.rmi.server.UnicastRemoteObject.

C:\Users\mdabu\Desktop\mca\semester3\dsc\dscc_rmi_factorial\src>rmiregistry 5000
```

C:\Windows\System32\cmd.exe - java myServer

```
Microsoft Windows [Version 10.0.19045.2251]
(c) Microsoft Corporation. All rights reserved.

C:\Users\mdabu\Desktop\mca\semester3\dsc\dscc_rmi_factorial\src>java myServer
Start..._
```

C:\Windows\System32\cmd.exe

```
Microsoft Windows [Version 10.0.19045.2251]
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C:\Users\mdabu\Desktop\mca\semester3\dsc\dscc_rmi_factorial\src>java myClient
Enter a no:5
Factorial of 5 is:120.0
C:\Users\mdabu\Desktop\mca\semester3\dsc\dscc_rmi_factorial\src>_
```