Assignment No. 1

```
System.out.println("multiplication is :" +
   Server.java:
                                                          serverIntf.multiplication(n1,n2));
import java.rmi.*;
                                                          System.out.println("Division is:" +
public class Server{
                                                          serverIntf.division(n1,n2));
       public static void main(String[] args){try{
                                                          }catch(Exception e){
       ServerImpl = new ServerImpl();
                                                          System.out.println("Exception occurred at client!" +
                                                          e.getMessage());}}}
       Naming.rebind("Server", serverImpl);
       System.out.println("Server Started");
       }catch(Exception e){
                                                             ServerInterface.java:
       System.out.println("Exception occurred at
                                                          import java.rmi.*;
server!" + e.getMessage());}}}
                                                          interface ServerIntf extends Remote {
                                                          public double addition (double n1, double n2)
   Client.java:
                                                          throws RemoteException; public double substraction
                                                          (double n1, double n2) throws
import java.rmi.*;
                                                          RemoteException; public double multiplication
import java.util.Scanner;
                                                          (double n1, double n2) throws RemoteException;
                                                          public double division (double n1, double n2)
public class Client{public static void main ( String[]
                                                          throws RemoteException;}
args){Scanner sc = new Scanner(System.in);
try{String serverURL = "rmi://localhost/Server";
                                                             ServerImplementation.java:
ServerIntf = (ServerIntf)
Naming.lookup(serverURL);
                                                          import java.rmi.*;
System.out.println("Enter Value of Number1");
                                                          import java.rmi.server.*;
double n1 = sc.nextDouble();
                                                          public class ServerImpl extends
                                                          UnicastRemoteObject implements ServerIntf{
System.out.println("Enter Value of Number2");
                                                          public ServerImpl() throws RemoteException{}
double n2 = sc.nextDouble();
                                                          public double addition (double n1, double n2)
System.out.println("First Number is "+n1);
                                                          throws RemoteException{return n1+n2;}public
System.out.println("Second Number is "+n2);
                                                          double substraction (double n1, double n2) throws
                                                          RemoteException{return n1-n2;}public double
System.out.println("-----Result------
                                                          multiplication (double n1, double n2) throws
");
                                                          RemoteException{return n1*n2;}public double
System.out.println("Addition is :" +
                                                          division (double n1, double n2) throws
serverIntf.addition(n1,n2));
                                                          RemoteException{if(n2 !=0){return n1/n2;}
                                                                 else{System.out.println("Can't divide a
System.out.println("Substraction is:" +
                                                          number by zero");}return n1/n2;}}
serverIntf.substraction(n1,n2));
```

Output:

```
Microsoft Windows [Version 10.0.22631.4890]

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C:\Users\Samrat Shinde\Desktop\LP-V>javac *.java

C:\Users\Samrat Shinde\Desktop\LP-V>rmiregistry

WARNING: A terminally deprecated method in java.lang.System has been called

WARNING: System::setSecurityManager has been called by sun.rmi.registry.RegistryImpl

WARNING: Please consider reporting this to the maintainers of sun.rmi.registry.RegistryImpl

WARNING: System::setSecurityManager will be removed in a future release
```

```
C:\Windows\System32\cmd.exe-java Server

Microsoft Windows [Version 10.0.22631.4890]

(c) Microsoft Corporation. All rights reserved.

C:\Users\Samrat Shinde\Desktop\LP-V>java Server

^C

C:\Users\Samrat Shinde\Desktop\LP-V>java Server

Server Started

Can't divide a number by zero
```

```
Microsoft Windows [Version 10.0.22631.4890]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Samrat Shinde\Desktop\LP-V>java Client
Enter Value of Number1
50
Enter Value of Number2
First Number is 50.0
Second Number is 10.0
------Result-----
Addition is :60.0
Substraction is :40.0
multiplication is :500.0
Division is :5.0
C:\Users\Samrat Shinde\Desktop\LP-V>java Client
Enter Value of Number1
30
Enter Value of Number2
First Number is 30.0
Second Number is 0.0
-----Result-----
Addition is :30.0
Substraction is :30.0
multiplication is :0.0
Division is :Infinity
C:\Users\Samrat Shinde\Desktop\LP-V>
```