

```

/*
Aim: To develop any distributed application through implementing client-server
communication programs based on java RMI.
*/

//AddClient.java

import java.rmi.*;

public class AddClient{

    public static void main(String args[]) {

        try{

            String addServerURL = "rmi://" + args[0] + "/AddServerImpl";
            AddServerIntf addServerIntf =
            (AddServerIntf)Naming.lookup(addServerURL);
            System.out.println("The first number is: " + args[1]);
            double d1 = Double.valueOf(args[1]).doubleValue();
            System.out.println("The second number is: " + args[2]);
            double d2 = Double.valueOf(args[2]).doubleValue();
            System.out.println("The sum is: " + addServerIntf.add(d1,d2));

        }
        catch(Exception e) {

            System.out.println("Exception: " + e);

        }

    }

}

```

```
//AddServer.java
```

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

```
import java.rmi.*;
```

```
public class AddServer {
```

```
    public static void main(String args[]) {
```

```
        try {
```

```
            AddServerImpl addServerImpl = new AddServerImpl();
```

```
            Naming.rebind("AddServerImpl", addServerImpl);
```

```
        }
```

```
        catch(Exception e) {
```

```
            System.out.println("Exception: " + e);
```

```
        }
```

```
    }
```

```
}
```

```
//AddServerImpl.java

import java.rmi.*;
import java.rmi.server.*;

public class AddServerImpl extends UnicastRemoteObject
implements AddServerIntf {

    public AddServerImpl() throws RemoteException {

    }

    public double add(double d1,double d2) throws RemoteException {

        return d1 + d2;
    }
}
```

```
//AddServerIntf.java
```

```
import java.rmi.*;
```

```
public interface AddServerIntf extends Remote {
```

```
    double add(double d1, double d2) throws RemoteException;  
}
```

//Output

/*

Terminal 1

```
jayshree@jayshree:~/Desktop/CL9/Ass1/Ass1bRMI/rmi$ javac *.java
jayshree@jayshree:~/Desktop/CL9/Ass1/Ass1bRMI/rmi$ rmic AddServerImpl
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been superseded by dynamically generated stubs.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.
jayshree@jayshree:~/Desktop/CL9/Ass1/Ass1bRMI/rmi$ rmiregistry
```

```
/*****
*****/
```

Terminal 2

```
jayshree@jayshree:~/Desktop/CL9/Ass1/Ass1bRMI/rmi$ java AddServer
```

```
/*****  
*****/
```

Terminal 3

```
jayshree@jayshree:~/Desktop/CL9/Ass1/Ass1bRMI/rmi$ java AddClient 192.168.42.151 8 9
```

The first number is: 8

The second number is: 9

The sum is: 17.0

```
jayshree@jayshree:~/Desktop/CL9/Ass1/Ass1bRMI/rmi$ java AddClient 192.168.42.151 7 9
```

The first number is: 7

The second number is: 9

The sum is: 16.0

```
jayshree@jayshree:~/Desktop/CL9/Ass1/Ass1bRMI/rmi$ java AddClient 192.168.42.151 7 9
```

The first number is: 7

The second number is: 9

The sum is: 16.0

```
jayshree@jayshree:~/Desktop/CL9/Ass1/Ass1bRMI/rmi$ java AddClient 192.168.42.151 9 9
```

The first number is: 9

The second number is: 9

The sum is: 18.0

```
jayshree@jayshree:~/Desktop/CL9/Ass1/Ass1bRMI/rmi$
```

*/

**