

Assignment – 1

CODE:

1.AddClient.java

```
import java.rmi.*;

public class AddClient {

    public static void main(String args[]) {

        try {

            // Get reference to the remote object

            String addServerURL = "rmi://" + args[0] + "/AddServer";

            AddServerIntf addServerIntf =

            (AddServerIntf) Naming.lookup(addServerURL);

            System.out.println("The first number is: " + args[1]);

            double d1 = Double.parseDouble(args[1]);

            System.out.println("The second number is: " + args[2]);

            double d2 = Double.parseDouble(args[2]);

            // Invoke remote method to add numbers

            System.out.println("The sum is: " + addServerIntf.add(d1, d2));

        }

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

        }}}


```

2.AddServer.java

```
import java.rmi.*;

public class AddServer {

    public static void main(String args[]) {

        try {


```

```

//create remote object
AddServerImpl addServerImpl = new AddServerImpl();
//bind the remote object
Naming.rebind("AddServer", addServerImpl);
}
catch (Exception e) {
System.out.println("Exception: "+ e);
}}}

```

3. AddServerImpl.java

```

import java.rmi.*;
import java.rmi.server.*;
//class that implements the remote interface
public class AddServerImpl extends UnicastRemoteObject
implements AddServerIntf {
//constructor
public AddServerImpl() throws RemoteException {
}
//implement method declared in the interface
public double add(double d1, double d2) throws RemoteException {
return d1 + d2; }
}

```

4. AddServerIntf.java

```

import java.rmi.*;
public interface AddServerIntf extends Remote {
//method declaration

```

```

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

import java.rmi.*;

public interface AddServerIntf extends Remote {

//method declaration

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

}

```

OUTPUT:

```

student@student: ~/DS/BE-IT-DS-main/Assign1
student@student:~/DS/BE-IT-DS-main/Assign1$ java AddClient 127.0.0.1 5 8
The first number is: 5
The second number is: 8
★ The sum is: 13.0
student@student:~/DS/BE-IT-DS-main/Assign1$

student@student:~/DS/BE-IT-DS-main/Assign1$ javac *.java
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been superseded by dynamically generated stubs.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.
student@student:~/DS/BE-IT-DS-main/Assign1$

student@student:~/DS/BE-IT-DS-main/Assign1$ java AddServer
student@student:~/DS/BE-IT-DS-main/Assign1$

student@student:~/DS/BE-IT-DS-main/Assign1$ rmiregistry
student@student:~/DS/BE-IT-DS-main/Assign1$

```