

DC-3:

Program: Adder.java

```
import java.rmi.Remote;

public interface Adder extends Remote {
    public int add(int x, int y) throws Exception;
}
```

Program: AdderRemote.java

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

public class AdderRemote extends UnicastRemoteObject implements Adder {
    public AdderRemote() throws Exception {
        super();
    }

    public int add(int x, int y) {
        return (x + y);
    }
}
```

Program: MyClient.java

```
import java.rmi.*;
import java.util.Scanner;

public class MyClient {
    public static void main(String args[]) {
        try {
            Scanner sc= new Scanner(System.in);
            Adder stub = (Adder) Naming.lookup("rmi://localhost:5000/sonoo");
            System.out.println("=====Performed By Moin MN
(211P030)=====");
            System.out.println("Enter 1st Number: ");
            int a=sc.nextInt();
            System.out.println("Enter 2nd Number: ");
            int b=sc.nextInt();
            System.out.print("Addition of two numbers are => ");
            System.out.println(stub.add(a, b));
        } catch (Exception e) {
            System.out.println(e);
        }
    }
}
```

Program: MyServer.java

```
import java.rmi.*;

public class MyServer {
    public static void main(String args[]) {
        try {
            Adder stub = new AdderRemote();
            Naming.rebind("rmi://localhost:5000/sonoo", stub);
        } catch (Exception e) {
            System.out.println(e);
        }
    }
}
```

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

```
Microsoft Windows [Version 10.0.19045.5371]
(c) Microsoft Corporation. All rights reserved.

C:\Users\student.RCOESRV\Documents\MoinMN>javac *.java

C:\Users\student.RCOESRV\Documents\MoinMN>rmic AdderRemote
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been superseded by dynamically generated stubs.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\student.RCOESRV\Documents\MoinMN>rmiregistry 5000
```

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

```
Microsoft Windows [Version 10.0.19045.5371]
(c) Microsoft Corporation. All rights reserved.

C:\Users\student.RCOESRV\Documents\MoinMN>java MyServer
```

C:\Windows\System32\cmd.exe

```
Microsoft Windows [Version 10.0.19045.5371]
(c) Microsoft Corporation. All rights reserved.

C:\Users\student.RCOESRV\Documents\MoinMN>java MyClient
=====Performed By Moin MN (211P030)=====
Enter 1st Number:
27
Enter 2nd Number:
45
Addition of two numbers are => 72

C:\Users\student.RCOESRV\Documents\MoinMN>_
```