Experiment No.5

Code:

1) Adder.java

```java
import java.rmi.*;
public interface Adder extends Remote
{
public int add(int x,int y)throws RemoteException;
}
```

2) AdderRemote.java

```java
import java.rmi.*;
import java.rmi.server.*;
public class AdderRemote extends UnicastRemoteObject implements Adder
{
AdderRemote()throws RemoteException{
super();
}
public int add(int x,int y)
{
return x+y;
}
}
```

3) MyClient.java

```java
import java.rmi.*;
public class MyClient{
public static void main(String args[])
{
try
{
Adder obj=(Adder)Naming.lookup("ADD");
int i = obj.add(34,4);
System.out.println("Addition is : "+ i);
}catch(Exception e){System.out.println(e);}
}
}
```

4) MyServer.java

```java
import java.rmi.*;
import java.rmi.registry.*;
public class MyServer
{
public static void main(String args[])
{
try{
Adder obj=new AdderRemote();
Naming.rebind("ADD",obj);
System.out.println("Server Strarted");
}catch(Exception e){System.out.println(e);}
} }
```

Output: Addition is : 38

Command Prompt Code: (for JDK-17)

Server-Side:-

Microsoft Windows [Version 10.0.22631.5189]
(c) Microsoft Corporation. All rights reserved.

C:\Users\HP>cd /d D:\Advanced_Java_Practicals\rmi1
D:\Advanced_Java_Practicals\rmi1>set path="C:\Program Files\Java\jdk-17\bin"
D:\Advanced_Java_Practicals\rmi1>javac *.java
D:\Advanced_Java_Practicals\rmi1>start rmiregistry
D:\Advanced_Java_Practicals\rmi1>java MyServer
Server Strarted

Client-Side:-

Microsoft Windows [Version 10.0.22631.5189]
(c) Microsoft Corporation. All rights reserved.

C:\Users\HP>cd /d D:\Advanced_Java_Practicals\rmi1
D:\Advanced_Java_Practicals\rmi1>set path="C:\Program Files\Java\jdk-17\bin"

D:\Advanced_Java_Practicals\rmi1>java MyClient
Addition is : 38

Note: In jdk-17 Modern RMI (since Java 5) supports **dynamic stub generation** at runtime using java.rmi.server.codebase and **java.rmi.server.UseCodebaseOnly=false**.