**Name: Isha Moykhede**

**Roll No: 50**

**DS Assignment No: 1**

**Title: Implement multi-threaded client/server Process communication using RMI**.

**Codes:**

**File name: Adder.java**

import java.rmi.\*;

public interface Adder extends Remote{

public int add(int x,int y)throws RemoteException;

}

**File name: AdderRemote.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;}

}

**File name: MyServer.java**

import java.rmi.\*;

import java.rmi.registry.\*;

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);}

}

}

**File name: MyClient.java**

import java.rmi.\*;

public class MyClient{

public static void main(String args[]){

try{

Adder stub=(Adder)Naming.lookup("rmi://localhost:5000/sonoo");

System.out.println(stub.add(34,4));

}catch(Exception e){System.out.println(e);}

}

}

**OUTPUT:**

**Command prompt 1**

Microsoft Windows [Version 10.0.19044.1889]

(c) Microsoft Corporation. All rights reserved.

C:\Users\isham>cd C:\Users\isham\Downloads\rmi1\1

C:\Users\isham\Downloads\rmi1\1>javac \*.java

C:\Users\isham\Downloads\rmi1\1>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been superseded by dynamically generated stubs.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\isham\Downloads\rmi1\1>rmiregistry 5000

**Command prompt 2**

Microsoft Windows [Version 10.0.19044.1889]

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C:\Users\isham>cd C:\Users\isham\Downloads\rmi1\1

C:\Users\isham\Downloads\rmi1\1>java MyServer

**Command prompt 3**

Microsoft Windows [Version 10.0.19044.1889]

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C:\Users\isham>cd C:\Users\isham\Downloads\rmi1\1

C:\Users\isham\Downloads\rmi1\1>Java MyClient

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C:\Users\isham\Downloads\rmi1\1>