**Code**

calci\_interface.java

package calci;

import java.rmi.Remote;

import java.rmi.RemoteException;

public interface calci\_interface extends Remote{

int addNum(int... arr) throws RemoteException;

double multiply(double... arr) throws RemoteException;

}

calci\_definition.java

package calci;

class Calci implements calci\_interface{

public Calci(){}

public int addNum(int... arr){

int total = 0;

for(int x: arr) total += x;

return total;

}

public double multiply(double... arr){

double res = 1;

for(double x:arr) res \*= x;

return res;

}

}

Client.java

package calci;

import java.rmi.registry.LocateRegistry;

import java.rmi.registry.Registry;

import java.util.Arrays;

import java.util.Scanner;

public class Client {

private Client(){}

public static void main(String[] args) {

String host = (args.length>0) ? args[0]:null;

Scanner sc = new Scanner(System.in);

try{

Registry registry = LocateRegistry.getRegistry(host);

calci\_interface stub = (calci\_interface) registry.lookup("Calci");

while(true){

System.out.println("1. Add\n2.Multiply\n3. Exit");

String key = sc.nextLine().toLowerCase();

if(key.equals("exit")) break;

switch(key){

case "add":

System.out.print("Enter your numbers: ");

System.out.println("result: "+stub.addNum(

Arrays.stream(

sc.nextLine().split("\\s+")

).mapToInt(Integer::parseInt).toArray()

));

break;

case "multiply":

System.out.print("Enter your numbers: ");

System.out.println("result: "+stub.multiply(

Arrays.stream(

sc.nextLine().split("\\s+")

).mapToDouble(Double::parseDouble).toArray()

));

break;

default:

System.out.println("Command: "+key+" not found");

break;

}

}

}

catch (Exception e){

System.err.println("Client exception: " + e.toString());

e.printStackTrace();

}

}

}

Server.java

package calci;

import java.rmi.registry.Registry;

import java.rmi.registry.LocateRegistry;

import java.rmi.server.UnicastRemoteObject;

public class Server {

public Server(){}

public static void main(String[] args) {

try{

calci\_interface skeCalci = (calci\_interface) UnicastRemoteObject.exportObject(

new Calci(),0

);

Registry registry = LocateRegistry.getRegistry();

registry.bind("Calci",skeCalci);

System.out.println("Server is ready");

}

catch (Exception e){

System.err.println("Server Exception: "+e.toString());

e.printStackTrace();

}

}

}

**Output**



