

MyService.java

```
import java.rmi.Remote;
import java.rmi.RemoteException;

public interface MyService extends Remote {

    public double Addition(double num1, double num2) throws RemoteException;
    public double Subtracion(double num1, double num2) throws RemoteException;
    public double Multiplication(double num1, double num2) throws
RemoteException;
    public double Division(double num1, double num2) throws RemoteException;

}
```

MyServiceImpl.java

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

public class MyServiceImpl extends UnicastRemoteObject implements MyService {

    public MyServiceImpl() throws RemoteException {
        super();
    }

    public double Addition(double num1, double num2) throws RemoteException
    {
        return num1+num2;
    }

    public double Subtracion(double num1, double num2) throws RemoteException
    {
        return num1-num2;
    }

    public double Multiplication(double num1, double num2) throws
RemoteException
    {
        return num1*num2;
    }

    public double Division(double num1, double num2) throws RemoteException
    {
        if(num2!=0)
        {
            return num1/num2;
        }
        else
        {
            System.out.println("Cannot divide number by zero");
            return 0;
        }
    }

    public static void main(String[] args) {
        try {
            // Create and export the service
            MyService service = new MyServiceImpl();

            // Bind the service to the RMI registry
            LocateRegistry.createRegistry(1099);
        }
    }
}
```

```
        Naming.rebind("rmi://localhost/MyService", service);

        System.out.println("Server is running...");
    } catch (Exception e) {
        e.printStackTrace();
    }
}
}
```

Client.java

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

public class Client{
    public static void main (String args[])
    {
        Scanner sc = new Scanner(System.in);

        try{

            String serverURL = "rmi://192.168.247.27/MyService";
            MyService serverintf = (MyService) Naming.lookup(serverURL);

            System.out.println("Enter First Number: ");
            double num1 = sc.nextDouble();
            System.out.println("Enter Second Number: ");
            double num2 = sc.nextDouble();

            System.out.println("First number is: " + num1);
            System.out.println("Second number is: " + num2);

            System.out.println("Results: ");
            System.out.println("Addition is: " +
serverintf.Addition(num1,num2));
            System.out.println("Subtraction is: " +
serverintf.Subtracion(num1,num2));
            System.out.println("Multiplication is: " +
serverintf.Multiplication(num1,num2));
            System.out.println("Division is: " +
serverintf.Division(num1,num2));

        }

        catch(Exception e){
            System.out.println("Exception occurred at Client! "
+e.getMessage());
        }

    }
}
```

OUTPUT:

Server side

```
PS D:\java> javac MyServiceImpl.java MyService.java
```

```
PS D:\java> java MyServiceImpl
```

Server is running...

Client side

```
PS D:\java> javac Client.java MyServiceImpl.java
```

```
PS D:\java> java Client
```

Enter First Number:

100

Enter Second Number:

20

First number is: 100.0

Second number is: 20.0

Results:

Addition is: 120.0

Subtraction is: 80.0

Multiplication is: 2000.0

Division is: 5.0