

**Code:**

**Filename: AddServerIntf.java**

```
1. import java.rmi.*;
2. import java.rmi.server.*;
3.
4. public interface AddServerIntf extends Remote{
5.     public double add(double a, double b) throws RemoteException;
6.     public double subtract(double a,double b) throws RemoteException;
7.     public double multiply(double a, double b) throws RemoteException;
8.     public double divide(double a, double b) throws RemoteException;
9. }
10.
```

**Filename: AddServerIntf.java**

```
1. import java.rmi.*;
2. import java.rmi.server.*;
3.
4. public class AddServerImpl extends UnicastRemoteObject implements AddServerIntf{
5.
6.     AddServerImpl() throws RemoteException{
7.         super();
8.     }
9.
10.    public double add(double a, double b) throws RemoteException{
11.        return a+b;
12.    }
13.
14.    public double subtract(double a,double b) throws RemoteException{
15.        return a-b;
16.    }
17.
18.    public double multiply(double a, double b) throws RemoteException{
19.        return a*b;
20.    }
21.
22.    public double divide(double a, double b) throws RemoteException{
23.        if(b == 0){
24.            System.out.println("Cannot divide by 0");
25.            return 0;
26.        }
27.        else
28.            return a/b;
29.    }
30.
31. }
```

### Filename: AddServer.java

```
1. import java.rmi.*;
2. import java.rmi.server.*;
3.
4. public class AddServer{
5.     public static void main(String[] args) throws Exception{
6.         AddServerImpl add = new AddServerImpl();
7.         Naming.rebind("AddServer",add);
8.     }
9. }
```

### Filename: AddClient.java

```
1. import java.rmi.*;
2. import java.io.*;
3. import java.util.Scanner;
4.
5. public class AddClient{
6.     public static void main(String[] args) throws Exception{
7.
8.         String ip;
9.         double a,b;
10.        Scanner sc = new Scanner(System.in);
11.
12.        System.out.print("Enter IP Address Client[-1 if no remote client]: ");
13.        ip = sc.nextLine();
14.        if(ip.equals("-1")){
15.            ip = "127.0.0.1";
16.        }
17.
18.        String url = "rmi://" + ip + "/AddServer";
19.        AddServerIntf addServerIntf = (AddServerIntf) Naming.lookup(url);
20.
21.        System.out.println("Enter the first number: ");
22.        a = sc.nextDouble();
23.        System.out.println("Enter the second number: ");
24.        b = sc.nextDouble();
25.
26.        System.out.println("Addition      : " + addServerIntf.add(a,b));
27.        System.out.println("Subtraction   : " + addServerIntf.subtract(a,b));
28.        System.out.println("Multiplication : " + addServerIntf.multiply(a,b));
29.        System.out.println("Division      : " + addServerIntf.divide(a,b));
30.
31.    }
32. }
```

## Output:

