

EXPERIMENT NO. 7

CODE:

one.java

```
import java.rmi.*;
interface one extends Remote
{
    public int add(int a, int b) throws RemoteException;
}
```

two.java

```
import java.rmi.*;
import java.rmi.server.*;
public class two extends UnicastRemoteObject implements one
{
    public two() throws RemoteException { }
    public int add(int a, int b) throws RemoteException
    {
        return a+b;
    }
}
```

rmiserver.java

```
import java.net.MalformedURLException;
import java.rmi.*;
public class rmiserver
{
    public static void main(String args[]) throws Exception
    {
        try
        {
            two twox = new two();
            Naming.bind("add", twox);
            System.out.println("Object registered");
        }
        catch(MalformedURLException | AlreadyBoundException | RemoteException
e)
        {
            System.out.println("Exception" + e);
        }
    }
}
```

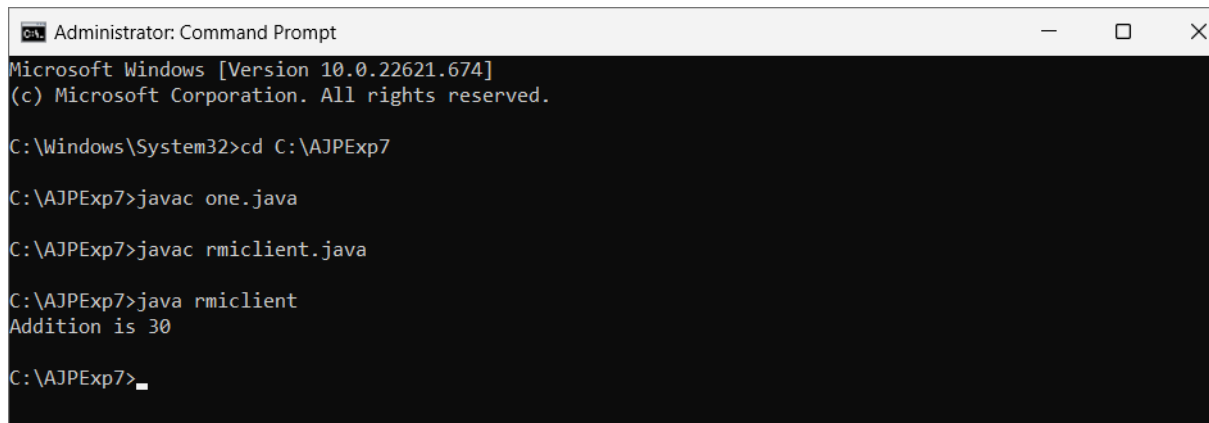
rmiclient.java

```
import java.io.*;
import java.rmi.*;
import java.net.*;
public class rmiclient
{
    public static void main(String args[]) throws Exception
    {
        try
        {
            String s1 = "rmi://localhost/add";
            one onex = (one)Naming.lookup(s1);
            int m = onex.add(10,20);
            System.out.println("Addition is ",m);

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

OUTPUT:

Client window



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.22621.674]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>cd C:\AJPExp7

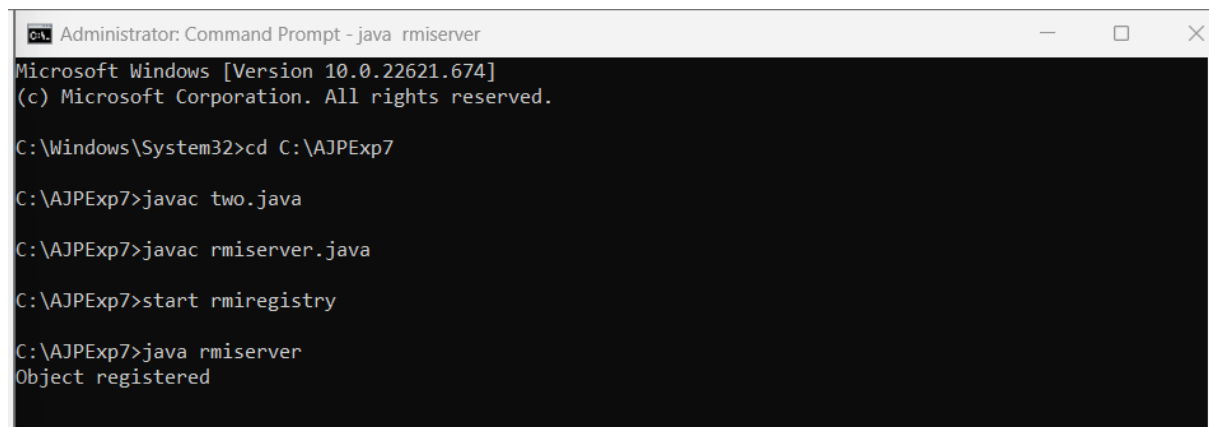
C:\AJPExp7>javac one.java

C:\AJPExp7>javac rmiclient.java

C:\AJPExp7>java rmiclient
Addition is 30

C:\AJPExp7>
```

Server window



```
Administrator: Command Prompt - java rmiserver
Microsoft Windows [Version 10.0.22621.674]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>cd C:\AJPExp7

C:\AJPExp7>javac two.java

C:\AJPExp7>javac rmiserver.java

C:\AJPExp7>start rmiregistry

C:\AJPExp7>java rmiserver
Object registered
```