

## EXPERIMENT NO. 5

### CODE:

#### one.java

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

#### two.java

```
import java.rmi.*;
import java.rmi.server.*;
public class two extends UnicastRemoteObject implements one
{
    public two() throws RemoteException { }
    public int palin(String a) throws RemoteException
    {
        System.out.println("Hello");
        StringBuffer str = new StringBuffer(a);
        String str1 = str.toString();
        System.out.println("Print : " + str1.toString());
        StringBuffer str2 = str.reverse();
        System.out.println("Print : " + str2.toString());
        int b = str1.compareTo(str2.toString());
        System.out.println("Print : " + b);
        if (b == 0)
            return 1;
        else
            return 0;
    }
}
```

#### 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("palin", 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.*;
import java.util.Scanner;
public class rmiclient
{
    public static void main(String args[]) throws Exception
    {
        Scanner sc = new Scanner(System.in);
        try
        {
            String s1 = "rmi://localhost/palin";
            one onex = (one)Naming.lookup(s1);
            System.out.println("Enter a string ");
            String s = sc.next();
            int m = onex.palin(s);
            System.out.println("Print : " + m);
            if (m == 1)
            {
                System.out.println("The given string is a Palindrome");
            }
            else
            {
                System.out.println("The given string is not a Palindrome");
            }
        }
        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:\AJPEXP5

C:\AJPEXP5>javac one.java

C:\AJPEXP5>javac rmiclient.java

C:\AJPEXP5>java rmiclient
Enter a string
racecar
Print : 1
The given string is a Palindrome

C:\AJPEXP5>java rmiclient
Enter a string
experiment
Print : 0
The given string is not a Palindrome

C:\AJPEXP5>
```

### Server window

```
Administrator: Command Prompt - java rmiserver
Microsoft Windows [Version 10.0.22621.674]
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C:\Windows\System32>cd C:\AJPEXP5

C:\AJPEXP5>javac two.java

C:\AJPEXP5>javac rmiserver.java

C:\AJPEXP5>start registry
The system cannot find the file registry.

C:\AJPEXP5>start rmiregistry

C:\AJPEXP5>java rmiserver
Object registered
Hello
Print : racecar
Print : racecar
Print : 0
Hello
Print : experiment
Print : tnemirepxe
Print : -15
```