

EXPERIMENT 5: -

Program: -

Palinterface.java

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

public interface Palinterface extends Remote {
    public int palin(String a) throws RemoteException;
}
```

Palclient.java

```
import java.io.*;
import java.rmi.*;
import java.net.*;
public class Palclient
{
    public static void main(String args[]) throws Exception
    {
        try
        {
            String s1 = "rmi://localhost/palin";
            Palinterface onex = (Palinterface)Naming.lookup(s1);
            int m = onex.palin("madam");
            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);
        }
    }
}
```

Palindrome.java

```
import java.rmi.server.UnicastRemoteObject;

import java.rmi.*;
import java.lang.*;
import java.rmi.server.*;
public class Palindrome extends UnicastRemoteObject implements Palinterface
{
    public Palindrome() 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;
    }
}
```

RMI_SERA.java

```
import java.io.*;
import java.rmi.*;
import java.net.*;
public class RMI_SERA
{
    public static void main(String args[]) throws Exception
    {
        try
        {
            Palindrome twox = new Palindrome();
            Naming.bind("palin", twox);
            System.out.println("Object registered");
        }
        catch(Exception e)
        {
            System.out.println("Exception" + e);
        }
    }
}
```

Output: -

```
Command Prompt - java RMI x + v
Microsoft Windows [Version 10.0.22621.1635]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin>cd C:\Users\Admin\Desktop\TE Experiments\Experiment 5
C:\Users\Admin\Desktop\TE Experiments\Experiment 5>cd src
C:\Users\Admin\Desktop\TE Experiments\Experiment 5\src>javac *.java
C:\Users\Admin\Desktop\TE Experiments\Experiment 5\src>start rmiregistry
C:\Users\Admin\Desktop\TE Experiments\Experiment 5\src>java RMI_SERA
Object registered
Hello
Print : madam
Print : madam
Print : 0
|
```

```
Markers Properties Servers Data Source Explorer Snippets Terminal Console x
<terminated> PalClient [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (08-May-2023, 6:47:56 pm - 6:47:56 pm) [pid: 10728]
Print : 1
The given string is a Palindrome
|
```