

Experiment No.5(B)

Code :

1) Pallin.java

```
import java.rmi.*;
public interface Pallin extends Remote{
    public boolean pallindrome(String s)throws RemoteException;
}
```

2) Pallin Remote

```
import java.util.Scanner;
import java.rmi.*;
import java.rmi.server.*;
public class PallinRemote extends UnicastRemoteObject implements Pallin
{
    PallinRemote()throws RemoteException
    {
        super();
    }
    public boolean pallindrome(String s)
    {
        String a, b = "";
        boolean status = false;
        a=s;
        int n = a.length();
        for(int i = n - 1; i >= 0; i--)
        {
            b = b + a.charAt(i);
        }
        if(a.equalsIgnoreCase(b))
        {
            return true;
        }
        else
        {
            return false;
        }
    }
}
```

3) MyServer.java

```
import java.rmi.registry.*;
public class MyServer {
    public static void main(String args[]) {
        try {
            System.setProperty("java.rmi.server.hostname", "localhost");
            Pallin stub = new PallinRemote();
            Registry registry = LocateRegistry.createRegistry(1099); // start internal registry
            registry.rebind("PAL", stub);
            System.out.println("Server Started");
        } catch (Exception e) {
            e.printStackTrace();
        } } }
```

4) MyClient.java

```
import java.util.Scanner;
import java.rmi.*;
public class MyClient{
public static void main(String args[]){
try{
Pallin stub=(Pallin)Naming.lookup("PAL");
Scanner s = new Scanner(System.in);
System.out.println("Enter the string you want to check:");
String a = s.nextLine();
if (stub.pallindrome(a)==true)
{
System.out.println(" The given string is Pallindrome");
}
else
{
System.out.println(" The given string is not Pallindrome");
}
} catch(Exception e){}
}
}
```

Output:

Enter the string you want to check: madam
The given string is Pallindrome.

Command Prompt:-

Command Prompt Code: (for JDK-17)

Server-Side:-

Microsoft Windows [Version 10.0.22631.5189]
(c) Microsoft Corporation. All rights reserved.

```
C:\Users\HP>cd /d D:\Advanced_Java_Practicals\rmi1
D:\Advanced_Java_Practicals\rmi1>set path="C:\Program Files\Java\jdk-17\bin"
D:\Advanced_Java_Practicals\rmi1>javac *.java
D:\Advanced_Java_Practicals\rmi1>start rmiregistry
D:\Advanced_Java_Practicals\rmi1>java MyServer
Server Started
```

Client-Side:-

Microsoft Windows [Version 10.0.22631.5189]
(c) Microsoft Corporation. All rights reserved.

```
C:\Users\HP>cd /d D:\Advanced_Java_Practicals\rmi1
D:\Advanced_Java_Practicals\rmi1>set path="C:\Program Files\Java\jdk-17\bin"

D:\Advanced_Java_Practicals\rmi1>java MyClient
Enter the string you want to check: madam
The given string is Pallindrome.
```

Note: In jdk-17 Modern RMI (since Java 5) supports **dynamic stub generation** at runtime using `java.rmi.server.codebase` and `java.rmi.server.UseCodebaseOnly=false`.