



SCTR's PUNE INSTITUTE OF COMPUTER TECHNOLOGY PUNE - 411043

Department of Electronics & Telecommunication Engineering (E&TCE)

ASSESSMENT YEAR: 2024-2025

CLASS: TE

BATCH: - N7

SUBJECT: Advanced JAVA Programming

Assignment No:5

Roll No: 32402

Date:05/03/2025

Programmer Name: Sahil Amrutkar

Batch: N7

Problem Statement: Develop an RMI application which accepts a string or a number and checks that string or number is palindrome or not.

Interface File

```
package ajp_exp5;
```

```
import java.rmi.*;
```

```
public interface PrintI extends Remote {
```

```
    void show() throws RemoteException;
```

```
}
```

Class file

```
import java.rmi.*;
```

```
import java.util.*;
```

```
import java.rmi.server.*;
```

```
import ajp_exp5.PrintI;
```

```
public class PrintC extends UnicastRemoteObject implements PrintI {
```

```
    public PrintC() throws RemoteException {
```

```
        super();
```

```
    }
```

```
    public void show() {
```

```
        Scanner sc = new Scanner(System.in);
```

```
        int option = 1;
```

```
        while (option == 1) {
```

```
            int ch;
```

```
            System.out.println("Choose 1 ");
```

```
            System.out.println("1.) String");
```

```
            System.out.println("2.) Number");
```

```
            ch = sc.nextInt();
```

```
            sc.nextLine();
```

```
            switch (ch) {
```



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case 1:

```
String str;  
System.out.println("Enter the string");  
str = sc.nextLine();  
str = str.replaceAll("\\s", "").toLowerCase();  
String reversed = new StringBuilder(str).reverse().toString();  
if (str.equals(reversed)) {  
    System.out.println("Entered String is Palindrome");  
} else {  
    System.out.println("Entered String is not a Palindrome");  
}  
break;
```

case 2:

```
int num;  
System.out.println("Enter A number");  
num = sc.nextInt();  
int original = num, reversedn = 0;  
while (num > 0) {  
    int digit = num % 10;  
    reversedn = reversedn * 10 + digit;  
    num /= 10;  
}  
if (original == reversedn) {  
    System.out.println("Entered Number is Palindrome");  
} else {  
    System.out.println("Entered Number is not Palindrome");  
}  
break;
```

default:

```
System.out.println("Wrong Option Please Try again");
```

```
}
```

```
System.out.println("Do you wish to continue(1/0)");
```

```
option = sc.nextInt();
```

```
}
```

```
}
```

```
}
```



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Server File

```
package ajp_exp5;
import java.rmi.*;
import java.rmi.registry.*;
import java.rmi.server.*;
import ajp_exp5.PrintC;

public class Server {
    public static void main(String[] args) throws RemoteException, AlreadyBoundException {
        PrintC obj = new PrintC();
        Registry registry = LocateRegistry.createRegistry(5000);
        try {
            registry.bind("DISPLAY", obj);
        } catch (AlreadyBoundException e) {
            e.printStackTrace();
        }
    }
}
```

Client File

```
package ajp_exp5;
import java.rmi.*;
import java.net.MalformedURLException;

public class Client {
    public static void main(String args[]) throws RemoteException, MalformedURLException {
        try {
            PrintI obj1 = (PrintI) Naming.lookup("rmi://localhost:5000/DISPLAY");
            obj1.show();
        } catch (NotBoundException e) {
            e.printStackTrace();
        }
    }
}
```



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OUTPUT

Choose 1

1.) String

2.) Number

1

Enter the string

tomato

Entered String is not Palindrome

Do yo wish to continue(1/0)

1

Choose 1

1.) String

2.) Number

10433401

Wrong Option Please Try again

Do yo wish to continue(1/0)

1

Choose 1

1.) String

2.) Number

2

Enter A number

10433401

Entered Number is a Palindrome

Do yo wish to continue(1/0)

1

Choose 1

1.) String

2.) Number

2

Enter A number

123320

Entered Number is not a Palindrome

Do yo wish to continue(1/0)

0

,