

“Experiment 8”

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Branch: **CSE**

Semester: **5**

Subject Name: **PBLJ Lab**

UID: **20BCS8226**

Section/Group: **808-A**

Date of Submission: **06-11-22**

Subject Code: **20CSP-321**

Aim:

Write a Program to Program to Check if a Given String is Palindrome.

Minimum Hardware Requirements:

- 2 GHz CPU or 1 virtual CPU in virtualized environments.
- 1 GB of RAM.
- 4 GB of storage.

Minimum Software Requirements:

Software	Version
<ul style="list-style-type: none">• OS	<ul style="list-style-type: none">• Mac OS 10.15, HP-UX 11i V3, AIX 7.2, Windows Server 2019, Windows 10, Solaris 11.3, Red Hat Enterprise Linux 8.1, Ubuntu Server 20.04
<ul style="list-style-type: none">• JDK	<ul style="list-style-type: none">• JDK 1.8.0, JDK 11, Eclipse IDE, Net, NetBeans 8.2

Source Code:

```
// Save: PalindromeString

import java.util.Scanner;

class PalindromeString
{
    public static void main(String args[])
    {
        String str, rev = "";

        Scanner sc = new Scanner(System.in);

        System.out.println("Enter a string:");
        str = sc.nextLine();

        int length = str.length();

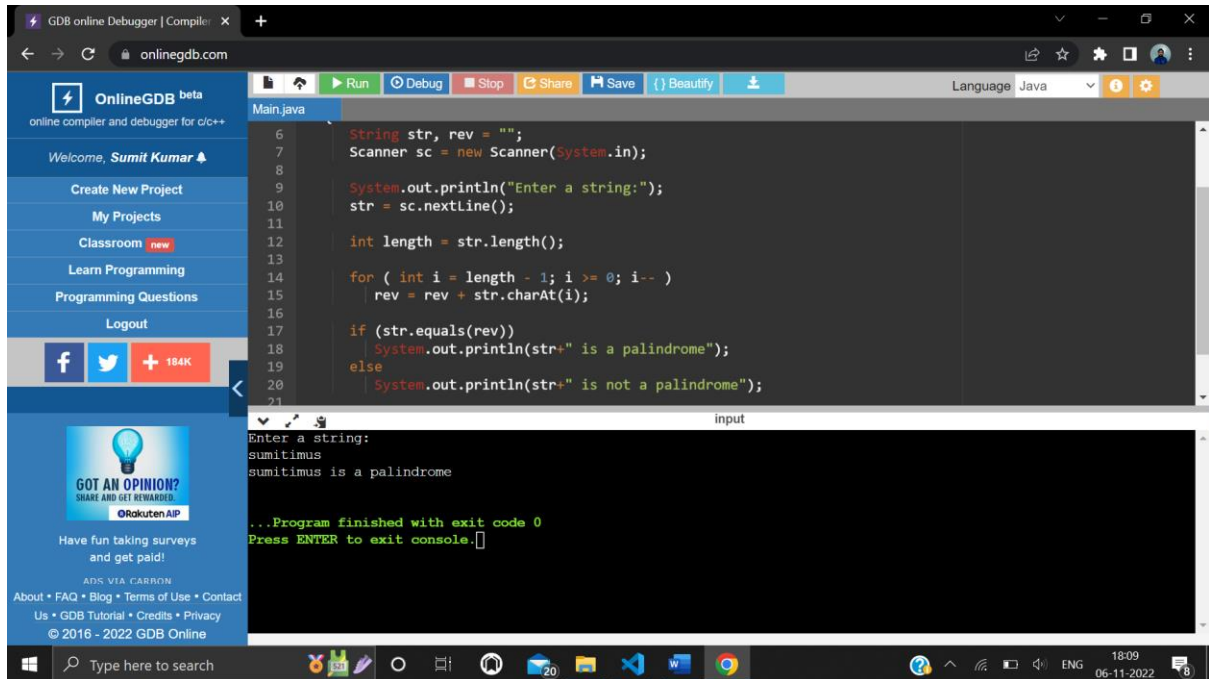
        for ( int i = length - 1; i >= 0; i-- )
            rev = rev + str.charAt(i);

        if (str.equals(rev))
            System.out.println(str+" is a palindrome");
        else
            System.out.println(str+" is not a palindrome");

    }
}
```

}

Output:



The screenshot shows the OnlineGDB web interface. The left sidebar contains navigation links: 'Welcome, Sumit Kumar', 'Create New Project', 'My Projects', 'Classroom new', 'Learn Programming', 'Programming Questions', and 'Logout'. Below these are social media icons for Facebook, Twitter, and a '+ 184K' button. A 'GOT AN OPINION?' survey banner is also present. The main area displays a Java file named 'Main.java' with the following code:

```
6 String str, rev = "";
7 Scanner sc = new Scanner(System.in);
8
9 System.out.println("Enter a string:");
10 str = sc.nextLine();
11
12 int length = str.length();
13
14 for ( int i = length - 1; i >= 0; i-- )
15     rev = rev + str.charAt(i);
16
17 if (str.equals(rev))
18     System.out.println(str+" is a palindrome");
19 else
20     System.out.println(str+" is not a palindrome");
21
```

The 'Run' button is highlighted. Below the code editor, the 'input' section shows the execution output:

```
Enter a string:
sumitimus
sumitimus is a palindrome

...Program finished with exit code 0
Press ENTER to exit console.[]
```

The Windows taskbar at the bottom shows the time as 18:09 on 06-11-2022.

Output when a palindrome string is entered

The screenshot shows the OnlineGDB web interface. The left sidebar contains navigation links: 'Welcome, Sumit Kumar', 'Create New Project', 'My Projects', 'Classroom', 'Learn Programming', 'Programming Questions', and 'Logout'. The main editor displays a Java file named 'Main.java' with the following code:

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6 String str, rev = "";
7 Scanner sc = new Scanner(System.in);
8
9 System.out.println("Enter a string:");
10 str = sc.nextLine();
11
12 int length = str.length();
13
14 for ( int i = length - 1; i >= 0; i-- )
15     rev = rev + str.charAt(i);
16
17 if (str.equals(rev))
18     System.out.println(str+" is a palindrome");
19 else
20     System.out.println(str+" is not a palindrome");
21
```

The console output shows the program execution: 'Enter a string:', 'sumit', 'sumit is not a palindrome', and '...Program finished with exit code 0'. The user input 'sumit' is visible in the 'input' field.

Output when a non-palindrome string is entered