

AIM : PROGRAM ON STRING AND STRING BUFFER**PROGRAM 1: (ON STRING)**

```
package practicals.exp7;
import java.io.*;
import java.util.*;

public class MyString
{
    public static void main(String[] args)
    {
        int opt;
        double num=190;
        String temp,temp1,temp2,t,temp5;

        Scanner sc =new Scanner(System.in);

        System.out.println(" ");

        System.out.println("At your service sir... ");

        System.out.println(" ");

        System.out.println(" I am your PC :)");

        System.out.println(" ");

        System.out.println("Enter a compliment for me here");

        temp=sc.nextLine();

        do
        {
            System.out.println(" ");
            System.out.println("Choose an option :");
            System.out.println("1.Length");
            System.out.println("2.Get Index of \"good\" string");
            System.out.println("3.Change to uppercase");
            System.out.println("4.Change to lowercase");
            System.out.println("5.Concatenate strings");
            System.out.println("6.Return character at index 3");
            System.out.println("7.Compare the entered string with another");
            System.out.println("8.Compare two strings whether they are
equal");
            System.out.println("9.Return the hashcode for the string");
            System.out.println("10.Check whether string is empty");
            System.out.println("11.Check whether the string contains a sub
string\"el\" ");
            System.out.println("12.Returns last Index Of the \"e\");
```

```

        System.out.println("13.Check whether string ends with \'s\'");
        System.out.println("14.Replace \"good\" in the string with
\"bad\" ");
        System.out.println("15.Returns the sub string in the range of
index 0-2");
        System.out.println("16.Trim");
        System.out.println("17.Exit");

        opt=sc.nextInt();

        switch(opt)
        {
            case 1: System.out.println("Lenght-"+temp.length());break;

            case 2: System.out.println("Index of the specified character
is:"+temp.indexOf("good"));break;

            case 3: System.out.println(temp.toUpperCase());break;

            case 4: System.out.println(temp.toLowerCase());break;

            case 5: System.out.println("Enter a String to be
concatenated");
                temp2=sc.next();
                System.out.println(temp.concat(temp2));break;

            case 6: System.out.println(temp.charAt(3));break;

            case 7: System.out.println("Enter another string");
                t=sc.next();
                System.out.println(temp.compareTo(t));break;

            case 8: System.out.println("Enter another String");
                temp5=sc.next();
                System.out.println(temp.equals(temp5));break;

            case 9: System.out.println(temp.hashCode());break;

            case 10: System.out.println(temp.isEmpty());break;

            case 11: System.out.println(temp.contains("el"));break;

            case 12: System.out.println(temp.lastIndexOf('e'));break;

            case 13: System.out.println(temp.endsWith("s"));break;

            case 14: System.out.println(temp.replace("good", "Bad"));break;

            case 15: System.out.println(temp.substring(0,2));break;

            case 16: System.out.println(temp.trim());break;

            case 17: System.out.println("Do compile and run me again :)");
                break;

            default: System.out.println("Enter a valid option");

```

```
        }  
    }while(opt!=17);  
}  
}
```

OUTPUT :

```
MyString x  
At your service sir...  
  
I am your PC :)  
  
Enter a compliment for me here  
youaregood  
  
Choose an option :  
1.Length  
2.Get Index of "good" string  
3.Change to uppercase  
4.Change to lowercase  
5.Concatenate strings  
6.Return character at index 3  
7.Compare the entered string with another  
8.Compare two strings whether they are equal  
9.Return the hashcode for the string  
10.Check whether string is empty  
11.Check whether the string contains a sub string"el"  
12.Returns last Index Of the 'e'  
13.Check whether string ends with 's'  
14.Replace "good" in the string with "bad"  
15.Returns the sub string in the range of index 0-2  
16.Trim  
17.Exit
```

```
MyString x
1
Lenght-10

Choose an option :
1.Length
2.Get Index of "good" string
3.Change to uppercase
4.Change to lowercase
5.Concatenate strings
6.Return character at index 3
7.Compare the entered string with another
8.Compare two strings whether they are equal
9.Return the hashcode for the string
10.Check whether string is empty
11.Check whether the string contains a sub string"el"
12.Returns last Index Of the 'e'
13.Check whether string ends with 's'
14.Replace "good" in the string with "bad"
15.Returns the sub string in the range of index 0-2
16.Trim
17.Exit
2
Index of the specified character is:6
```

```
MyString x
Choose an option :
1.Length
2.Get Index of "good" string
3.Change to uppercase
4.Change to lowercase
5.Concatenate strings
6.Return character at index 3
7.Compare the entered string with another
8.Compare two strings whether they are equal
9.Return the hashcode for the string
10.Check whether string is empty
11.Check whether the string contains a sub string"el"
12.Returns last Index Of the 'e'
13.Check whether string ends with 's'
14.Replace "good" in the string with "bad"
15.Returns the sub string in the range of index 0-2
16.Trim
17.Exit
3
YOUAREGOOD
```

```
MyString x
Choose an option :
1.Length
2.Get Index of "good" string
3.Change to uppercase
4.Change to lowercase
5.Concatenate strings
6.Return character at index 3
7.Compare the entered string with another
8.Compare two strings whether they are equal
9.Return the hashcode for the string
10.Check whether string is empty
11.Check whether the string contains a sub string"el"
12.Returns last Index Of the 'e'
13.Check whether string ends with 's'
14.Replace "good" in the string with "bad"
15.Returns the sub string in the range of index 0-2
16.Trim
17.Exit
4
youaregood
```

```
MyString x
Choose an option :
1.Length
2.Get Index of "good" string
3.Change to uppercase
4.Change to lowercase
5.Concatenate strings
6.Return character at index 3
7.Compare the entered string with another
8.Compare two strings whether they are equal
9.Return the hashcode for the string
10.Check whether string is empty
11.Check whether the string contains a sub string"el"
12.Returns last Index Of the 'e'
13.Check whether string ends with 's'
14.Replace "good" in the string with "bad"
15.Returns the sub string in the range of index 0-2
16.Trim
17.Exit
5
Enter a String to be concatenated
mypc
youaregoodmypc
```

Choose an option :

- 1.Length
- 2.Get Index of "good" string
- 3.Change to uppercase
- 4.Change to lowercase
- 5.Concatenate strings
- 6.Return character at index 3
- 7.Compare the entered string with another
- 8.Compare two strings whether they are equal
- 9.Return the hashcode for the string
- 10.Check whether string is empty
- 11.Check whether the string contains a sub string"el"
- 12.Returns last Index Of the 'e'
- 13.Check whether string ends with 's'
- 14.Replace "good" in the string with "bad"
- 15.Returns the sub string in the range of index 0-2
- 16.Trim
- 17.Exit

6

a

MyString x

Choose an option :

- 1.Length
- 2.Get Index of "good" string
- 3.Change to uppercase
- 4.Change to lowercase
- 5.Concatenate strings
- 6.Return character at index 3
- 7.Compare the entered string with another
- 8.Compare two strings whether they are equal
- 9.Return the hashcode for the string
- 10.Check whether string is empty
- 11.Check whether the string contains a sub string"el"
- 12.Returns last Index Of the 'e'
- 13.Check whether string ends with 's'
- 14.Replace "good" in the string with "bad"
- 15.Returns the sub string in the range of index 0-2
- 16.Trim
- 17.Exit

7

Enter another string

yovaregood

0

MyString x

Choose an option :

- 1.Length
- 2.Get Index of "good" string
- 3.Change to uppercase
- 4.Change to lowercase
- 5.Concatenate strings
- 6.Return character at index 3
- 7.Compare the entered string with another
- 8.Compare two strings whether they are equal
- 9.Return the hashcode for the string
- 10.Check whether string is empty
- 11.Check whether the string contains a sub string"el"
- 12.Returns last Index Of the 'e'
- 13.Check whether string ends with 's'
- 14.Replace "good" in the string with "bad"
- 15.Returns the sub string in the range of index 0-2
- 16.Trim
- 17.Exit

8

Enter another String

youarebad

false

MyString x

Choose an option :

- 1.Length
- 2.Get Index of "good" string
- 3.Change to uppercase
- 4.Change to lowercase
- 5.Concatenate strings
- 6.Return character at index 3
- 7.Compare the entered string with another
- 8.Compare two strings whether they are equal
- 9.Return the hashcode for the string
- 10.Check whether string is empty
- 11.Check whether the string contains a sub string"el"
- 12.Returns last Index Of the 'e'
- 13.Check whether string ends with 's'
- 14.Replace "good" in the string with "bad"
- 15.Returns the sub string in the range of index 0-2
- 16.Trim
- 17.Exit

9

231787538

MyString x

Choose an option :

- 1.Length
 - 2.Get Index of "good" string
 - 3.Change to uppercase
 - 4.Change to lowercase
 - 5.Concatenate strings
 - 6.Return character at index 3
 - 7.Compare the entered string with another
 - 8.Compare two strings whether they are equal
 - 9.Return the hashcode for the string
 - 10.Check whether string is empty
 - 11.Check whether the string contains a sub string"el"
 - 12.Returns last Index Of the 'e'
 - 13.Check whether string ends with 's'
 - 14.Replace "good" in the string with "bad"
 - 15.Returns the sub string in the range of index 0-2
 - 16.Trim
 - 17.Exit
- 10
false
-

MyString x

Choose an option :

- 1.Length
 - 2.Get Index of "good" string
 - 3.Change to uppercase
 - 4.Change to lowercase
 - 5.Concatenate strings
 - 6.Return character at index 3
 - 7.Compare the entered string with another
 - 8.Compare two strings whether they are equal
 - 9.Return the hashcode for the string
 - 10.Check whether string is empty
 - 11.Check whether the string contains a sub string"el"
 - 12.Returns last Index Of the 'e'
 - 13.Check whether string ends with 's'
 - 14.Replace "good" in the string with "bad"
 - 15.Returns the sub string in the range of index 0-2
 - 16.Trim
 - 17.Exit
- 11
false
-

MyString x

Choose an option :

- 1.Length
 - 2.Get Index of "good" string
 - 3.Change to uppercase
 - 4.Change to lowercase
 - 5.Concatenate strings
 - 6.Return character at index 3
 - 7.Compare the entered string with another
 - 8.Compare two strings whether they are equal
 - 9.Return the hashcode for the string
 - 10.Check whether string is empty
 - 11.Check whether the string contains a sub string"el"
 - 12.Returns last Index Of the 'e'
 - 13.Check whether string ends with 's'
 - 14.Replace "good" in the string with "bad"
 - 15.Returns the sub string in the range of index 0-2
 - 16.Trim
 - 17.Exit
- 12
- 5
-

MyString x

Choose an option :

- 1.Length
 - 2.Get Index of "good" string
 - 3.Change to uppercase
 - 4.Change to lowercase
 - 5.Concatenate strings
 - 6.Return character at index 3
 - 7.Compare the entered string with another
 - 8.Compare two strings whether they are equal
 - 9.Return the hashcode for the string
 - 10.Check whether string is empty
 - 11.Check whether the string contains a sub string"el"
 - 12.Returns last Index Of the 'e'
 - 13.Check whether string ends with 's'
 - 14.Replace "good" in the string with "bad"
 - 15.Returns the sub string in the range of index 0-2
 - 16.Trim
 - 17.Exit
- 13
- false
-

```
MyString x  MyVector x
Enter a compliment for me here
youaregood

Choose an option :
1.Length
2.Get Index of "good" string
3.Change to uppercase
4.Change to lowercase
5.Concatenate strings
6.Return character at index 3
7.Compare the entered string with another
8.Compare two strings whether they are equal
9.Return the hashcode for the string
10.Check whether string is empty
11.Check whether the string contains a sub string"el"
12.Returns last Index Of the 'e'
13.Check whether string ends with 's'
14.Replace "good" in the string with "bad"
15.Returns the sub string in the range of index 0-2
16.Trim
17.Exit
14
youareBad
```

```
MyString x
Choose an option :
1.Length
2.Get Index of "good" string
3.Change to uppercase
4.Change to lowercase
5.Concatenate strings
6.Return character at index 3
7.Compare the entered string with another
8.Compare two strings whether they are equal
9.Return the hashcode for the string
10.Check whether string is empty
11.Check whether the string contains a sub string"el"
12.Returns last Index Of the 'e'
13.Check whether string ends with 's'
14.Replace "good" in the string with "bad"
15.Returns the sub string in the range of index 0-2
16.Trim
17.Exit
15
yo
```

```
MyString x
Choose an option :
1.Length
2.Get Index of "good" string
3.Change to uppercase
4.Change to lowercase
5.Concatenate strings
6.Return character at index 3
7.Compare the entered string with another
8.Compare two strings whether they are equal
9.Return the hashcode for the string
10.Check whether string is empty
11.Check whether the string contains a sub string"el"
12.Returns last Index Of the 'e'
13.Check whether string ends with 's'
14.Replace "good" in the string with "bad"
15.Returns the sub string in the range of index 0-2
16.Trim
17.Exit
16
youaregood
```

PROGRAM 2: (ON STRING BUFFER)

```
package practicals.exp7;
import java.util.*;

public class Interact {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        System.out.println("Hello agent Az I am your PC");

        System.out.println("Enter our secret code here");

        int greet = sc.nextInt();

        if (greet == 786)
            System.out.println("Our today's mission is to see working of some
string buffer methods");

        System.out.println("Our string is :\"Tom and Jerry\"");

        StringBuffer line1 = new StringBuffer("Tom and Jerry");

        int opt;
        do {
```

```

System.out.println(" Choose an option");

System.out.println("1.Get string length");
System.out.println("2.Delete sub string from 7-13");
System.out.println("3.Insert string at any index");
System.out.println("4.Replace a sub string");
System.out.println("5.Reverse the string");
System.out.println("6.Return a sub string from 0-4");
System.out.println("7.Exit");

opt = sc.nextInt();

switch (opt) {
    case 1:
        System.out.println(line1.length());
        break;
    case 2:
        System.out.println(line1.delete(7, 13));
        break;

    case 3:
        System.out.println(line1.insert(7, " Jill"));
        break;

    case 4:
        System.out.println(line1.replace(0, 3, "Jack"));
        break;

    case 5:
        System.out.println(line1.reverse());
        break;

    case 6:
        System.out.println(line1.substring(0, 4));
        break;

    case 7:
        break;
}
} while (opt != 7);
}

```

OUTPUT :

```
"C:\Program Files\Java\jdk-11.0.12\bin\java.exe" "-javaagent:C:\Progra
Hello agent Az I am your PC
Enter our secret code here
786
Our today's mission is to see working of some string buffer methods
Our string is : "Tom and Jerry"
  Choose an option
1.Get string length
2.Delete sub string from 7-13
3.Insert string at any index
4.Replace a sub string
5.Reverse the string
6.Return a sub string from 0-4
7.Exit
1
13
  Choose an option
1.Get string length
2.Delete sub string from 7-13
3.Insert string at any index
4.Replace a sub string
5.Reverse the string
6.Return a sub string from 0-4
7.Exit
2
Tom and
```

```
MyString x Interact x
  Choose an option
1.Get string length
2.Delete sub string from 7-13
3.Insert string at any index
4.Replace a sub string
5.Reverse the string
6.Return a sub string from 0-4
7.Exit
2
Tom and
  Choose an option
1.Get string length
2.Delete sub string from 7-13
3.Insert string at any index
4.Replace a sub string
5.Reverse the string
6.Return a sub string from 0-4
7.Exit
3
Tom and Jill
```

```
MyString x Interact x
Choose an option
1.Get string length
2.Delete sub string from 7-13
3.Insert string at any index
4.Replace a sub string
5.Reverse the string
6.Return a sub string from 0-4
7.Exit
4
Jack and Jill
Choose an option
1.Get string length
2.Delete sub string from 7-13
3.Insert string at any index
4.Replace a sub string
5.Reverse the string
6.Return a sub string from 0-4
7.Exit
5
l1iJ dna kcaJ
```

```
MyString x Interact x
7.Exit
5
l1iJ dna kcaJ
Choose an option
1.Get string length
2.Delete sub string from 7-13
3.Insert string at any index
4.Replace a sub string
5.Reverse the string
6.Return a sub string from 0-4
7.Exit
6
l1iJ
Choose an option
1.Get string length
2.Delete sub string from 7-13
3.Insert string at any index
4.Replace a sub string
5.Reverse the string
6.Return a sub string from 0-4
7.Exit
7
Process finished with exit code 0
|
```