

27. JUNIT TESTING TO CHECK WHETHER THE GIVEN STRING IS GETTING REVERSED OR NOT

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AIM

To Perform Junit Testing to Check Whether the given string is getting Reversed or not

PROGRAM

```
package sse;

import static org.junit.Assert.assertEquals;
import java.util.Scanner;

public class reverse
{
    public static void main(String[] args)
    {
        String str;
        char ch;
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter a string : ");
        str=sc.nextLine();
        System.out.println("Reverse of a String '"+str+"' is :");
        for(int j=str.length();j>0;--j)
        {
            System.out.print(str.charAt(j-1));
            assertEquals("mani",str);

        }

        assertEquals("mani",str);
    }
}
```

OUTPUT

The screenshot shows the Eclipse IDE with the file `reverse.java` open. The code defines a package `sse` and a class `reverse` with a `main` method. The `main` method uses `Scanner` to read a string from the user, prints it, and then prints its reverse. A JUnit assertion is used to verify that the reverse of the string "mani" is "inam". The console output shows the program running successfully, with the input "mani" and the output "inam".

```
1 package sse;
2
3 import static org.junit.Assert.assertEquals;
4
5 public class reverse
6 {
7     public static void main(String[] args)
8     {
9         String str;
10        char ch;
11        Scanner sc=new Scanner(System.in);
12        System.out.print("Enter a string : ");
13        str=sc.nextLine();
14        System.out.println("Reverse of a String '"+str+"' is :");
15        for(int j=str.length();j>0;--j)
16        {
17            System.out.print(str.charAt(j-1));
18            assertEquals("mani",str);
19        }
20
21        assertEquals("mani",str);
22    }
23 }
24
25 }
26 }
27
28 |
```

Problems Javadoc Declaration Console

<terminated> reverse [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (25-May-2023, 3:36:46 pm)

Enter a string : mani

Reverse of a String 'mani' is :
inam

The screenshot shows the Eclipse IDE with the file `reverse.java` open. The code is the same as in the first screenshot. However, the console output shows that the test failed because the input string was "Gowtham" instead of "mani". The assertion error message is displayed in the console.

```
1 package sse;
2
3 import static org.junit.Assert.assertEquals;
4
5 public class reverse
6 {
7     public static void main(String[] args)
8     {
9         String str;
10        char ch;
11        Scanner sc=new Scanner(System.in);
12        System.out.print("Enter a string : ");
13        str=sc.nextLine();
14        System.out.println("Reverse of a String '"+str+"' is :");
15        for(int j=str.length();j>0;--j)
16        {
17            System.out.print(str.charAt(j-1));
18            assertEquals("mani",str);
19        }
20
21        }
22 }
23
24 }
```

Problems Javadoc Declaration Console

<terminated> reverse [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (25-May-2023, 3:49:41 pm)

Enter a string : Gowtham

Reverse of a String 'Gowtham' is :
mException in thread "main" org.junit.ComparisonFailure: expected:<[mani]> but was:<[Gowtham]>
 at org.junit.Assert.assertEquals(Assert.java:115)
 at org.junit.Assert.assertEquals(Assert.java:144)
 at sse.reverse.main(reverse.java:18)

RESULT

Hence the Junit Testing to Check Whether the given string is getting Reversed or not performed successfully.