

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

AIM

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

PROGRAM

```
package sse;

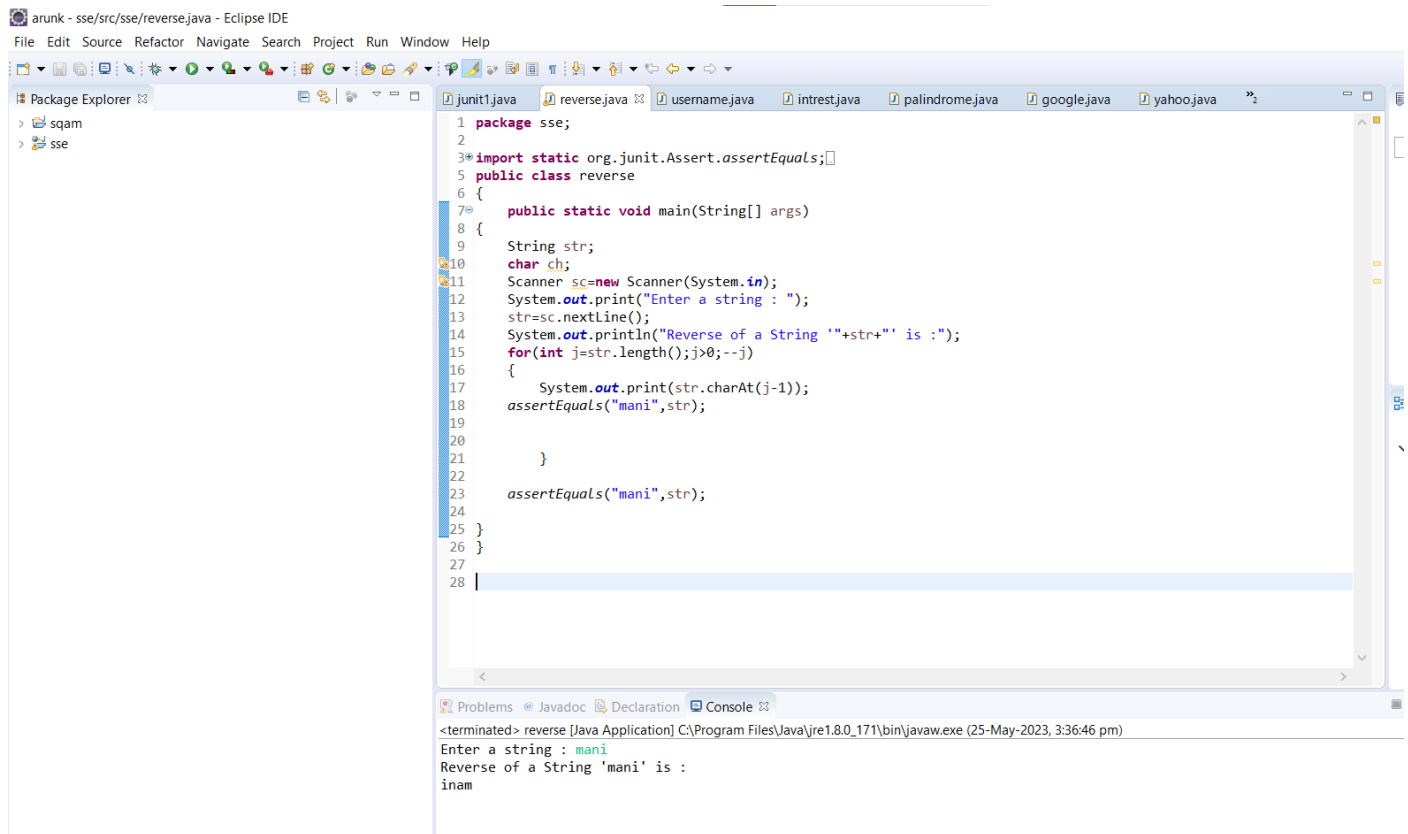
import static org.junit.Assert.assertEquals;
import java.util.Scanner;

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 'reverse.java' file open. The code defines a package 'sse' and a class 'reverse' with a 'main' method. The 'main' method uses a 'Scanner' to read a string 'mani' and prints its reverse 'inam'. A JUnit test is performed, and the console output shows the program terminated successfully, with the input 'mani' and the output 'inam'.

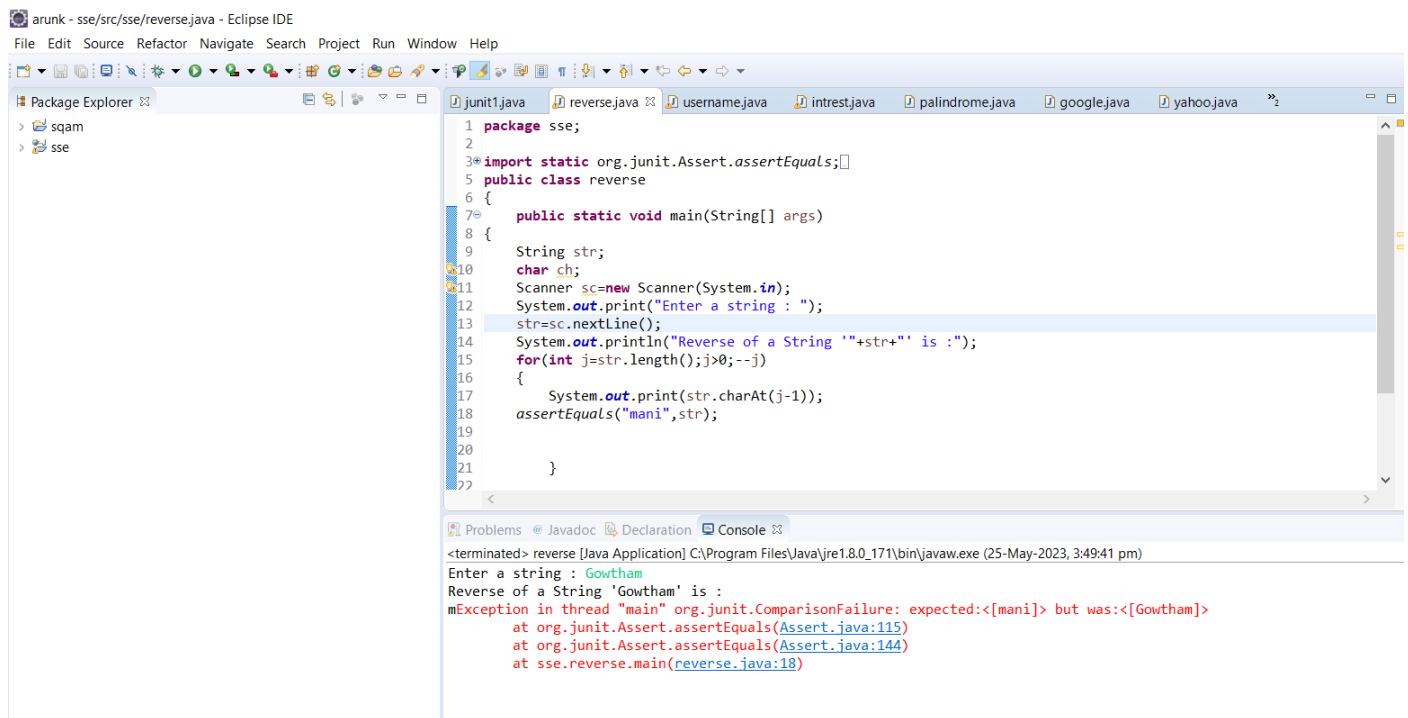
```
1 package sse;
2
3 import static org.junit.Assert.assertEquals;
4
5 public class reverse
6 {
7     public static void main(String[] args)
8     {
9         String str;
10        char ch;
11        Scanner sc=new Scanner(System.in);
12        System.out.print("Enter a string : ");
13        str=sc.nextLine();
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 'reverse.java' file open. The code is identical to the previous one, but the input string is 'Gowtham'. The JUnit test fails because the actual output 'Gowtham' does not match the expected output 'mani'.

```
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
25 }
```

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.