

**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;

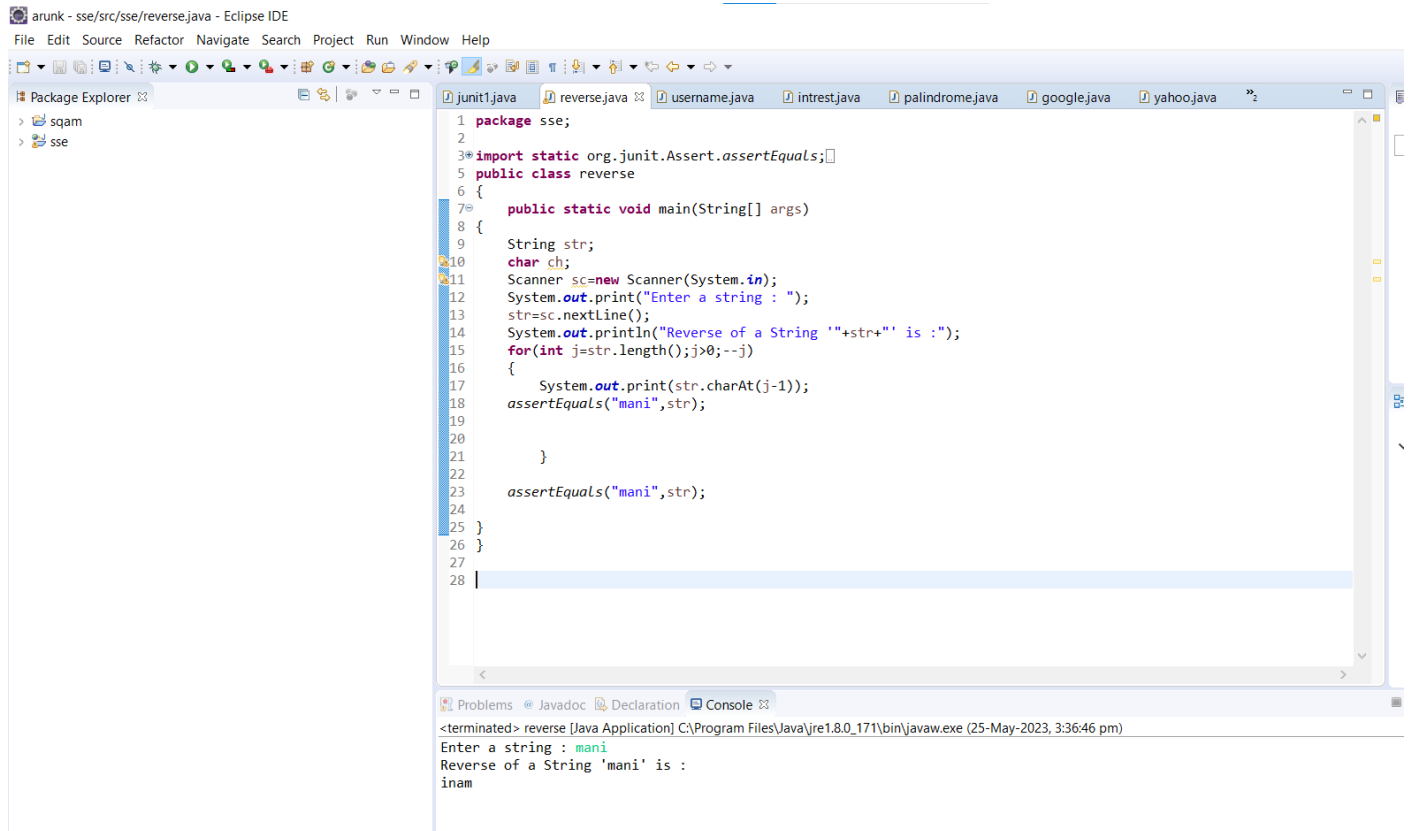
import static org.junit.Assert.assertEquals;
import java.util.Scanner;

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()-1;j>0;j--)
        {
            System.out.print(str.charAt(j-1));
            assertEquals("mani",str);

        }

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

## OUTPUT



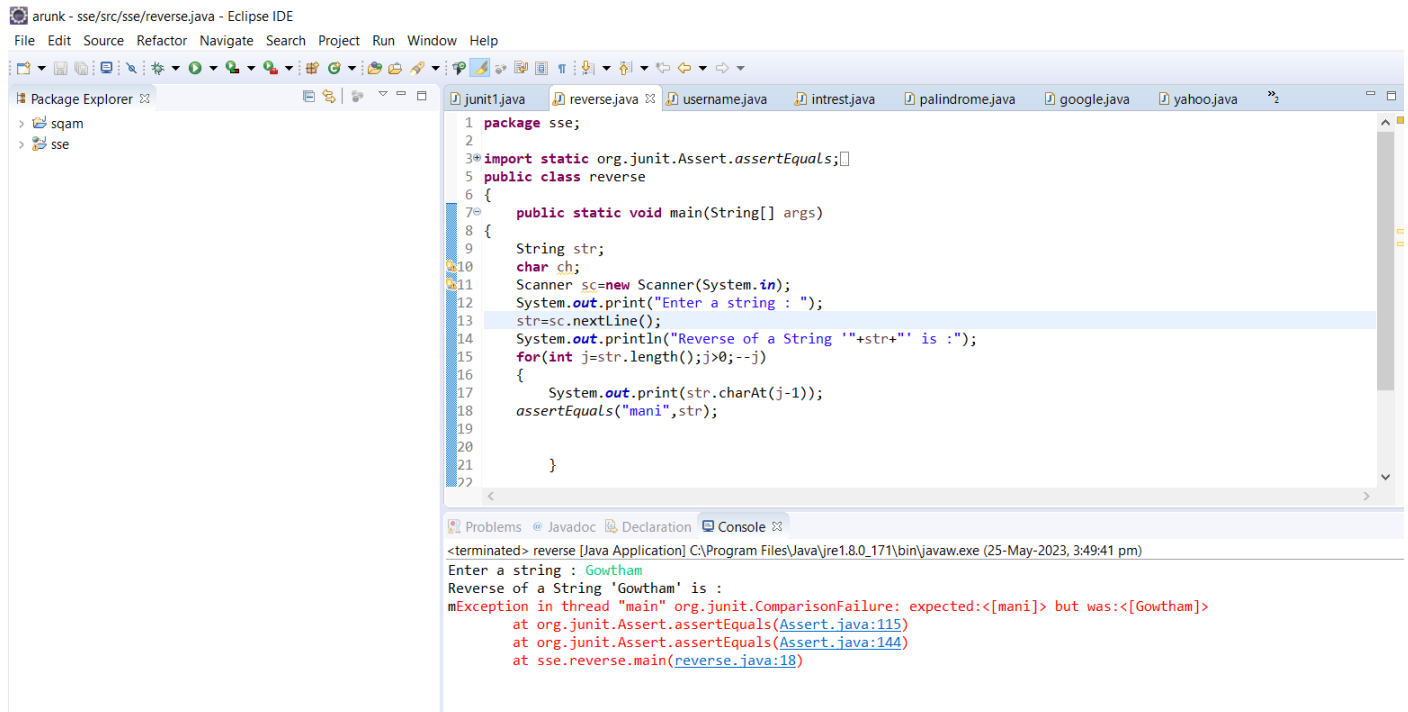
The screenshot shows the Eclipse IDE with the 'reverse.java' file open. The code defines a package 'sse' and a class 'reverse' with a 'main' method. It uses 'Scanner' to take input and 'System.out.println' to print the reversed string. A JUnit assertion 'assertEquals("mani", str);' is used to verify the output. 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 'reverse.java' file open. The code is identical to the previous one, but the input 'Gowtham' does not match the expected 'mani' in the assertion. The console output shows a 'ComparisonFailure' exception.

```
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.