

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

V. SIRISHA

192011492

AIM

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

PROGRAM

```
package sse;

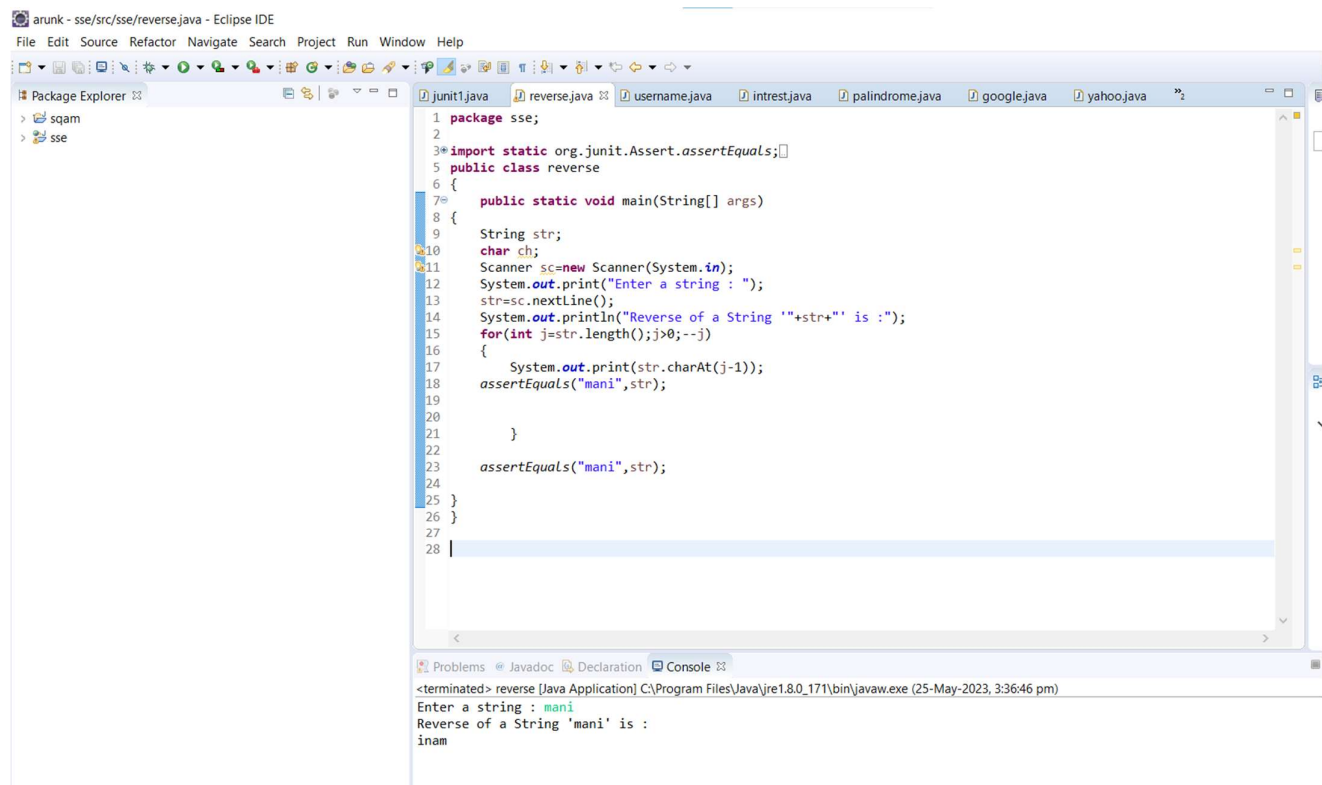
import static org.junit.Assert.assertEquals;
import java.util.Scanner;

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);
    }
}
```

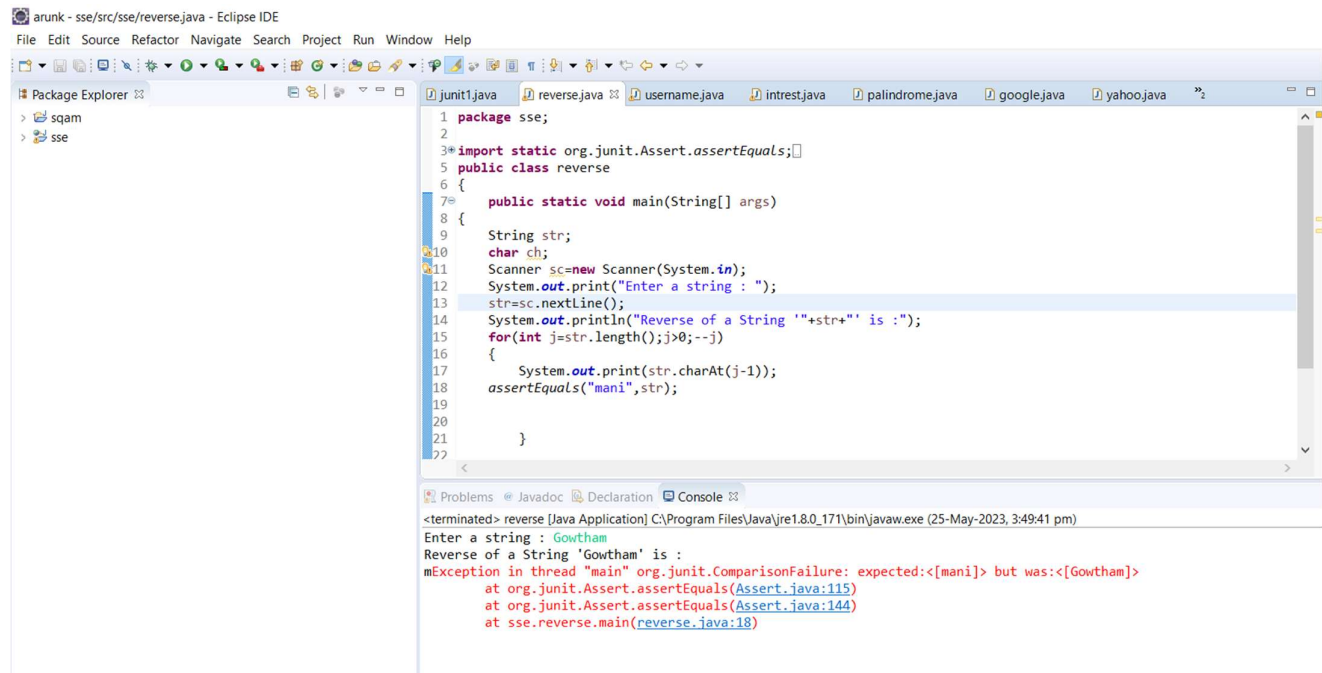
OUTPUT



The screenshot shows the Eclipse IDE with the 'reverse.java' file open. The code defines a package 'sse', imports 'org.junit.Assert.assertEquals', and creates a 'reverse' class with a 'main' method. The 'main' method prompts the user to enter a string, reads 'mani', prints its reverse 'inam', and then uses 'assertEquals("mani",str);' to verify the result. The console output shows the program execution: 'Enter a string : mani' and 'Reverse of a String 'mani' is : inam'. The JUnit test passes without any errors.

```
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 console output shows a test failure. The user entered 'Gowtham', and the program printed 'Reverse of a String 'Gowtham' is :'. The JUnit test failed with a 'ComparisonFailure' exception, stating that the expected value was 'mani' but the actual value was 'Gowtham'. The stack trace points to the 'assertEquals' method in the test.

```
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
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, 3:49:41 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.