

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;

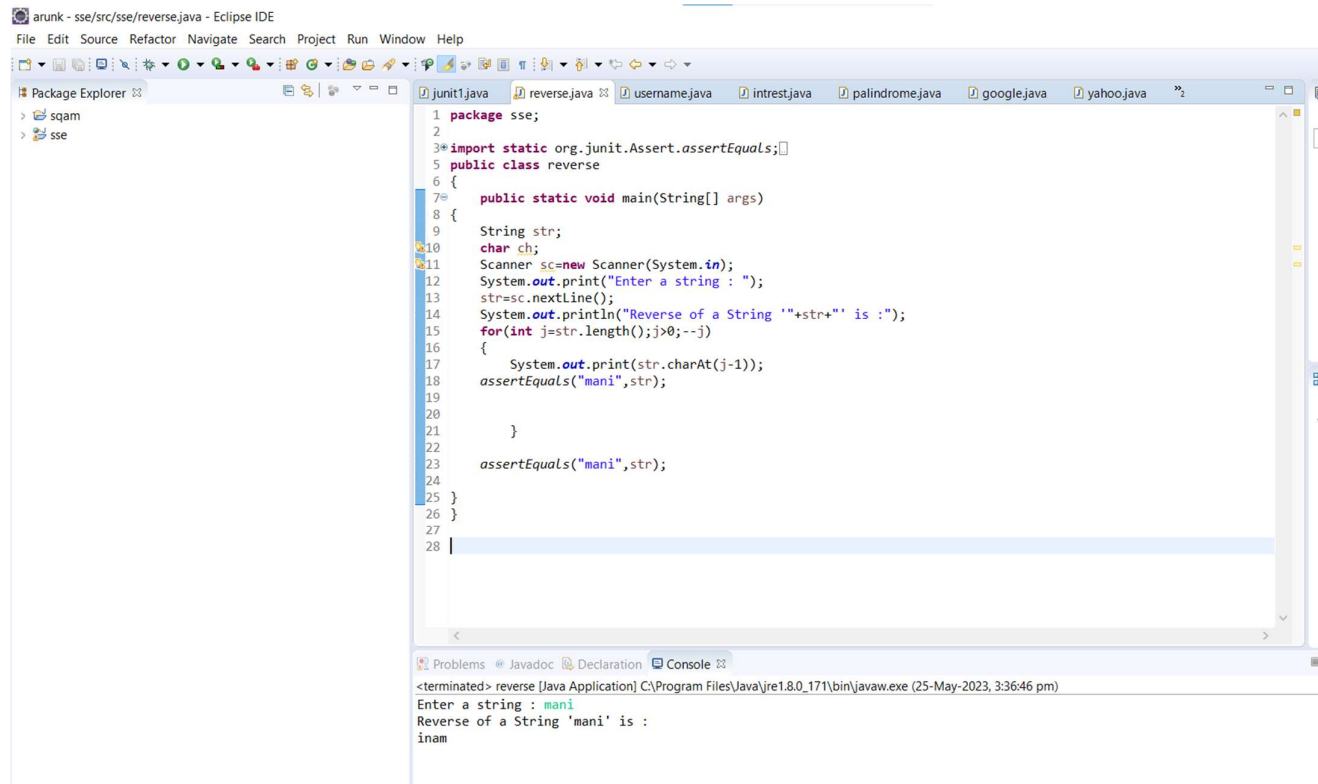
import static org.junit.Assert.assertEquals;
import java.util.Scanner;

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

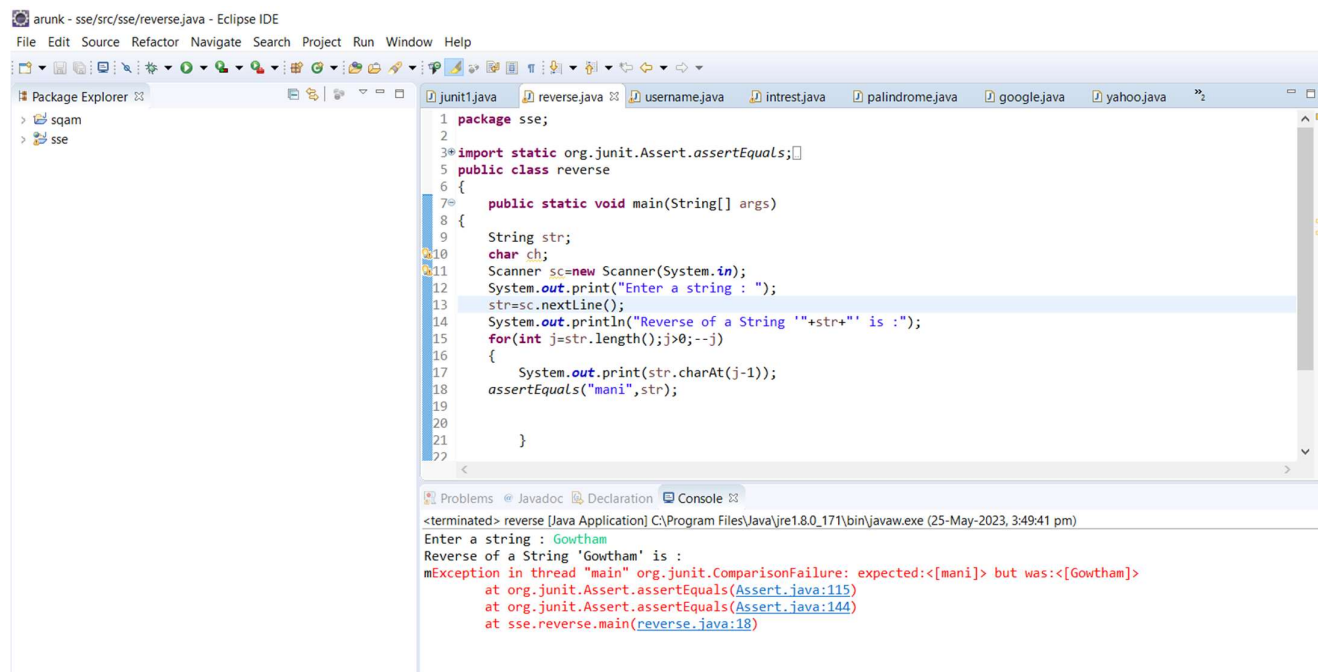


The screenshot shows the Eclipse IDE with the file `reverse.java` open. The code defines a package `sse` and a class `reverse` with a `main` method. The `main` method prompts the user to enter a string, reads it, and prints its reverse. It also includes a JUnit assertion to verify that the reversed string is "mani". 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        assertEquals("mani",str);
21    }
22 }
23
24
25 }
26
27
28 |
```

Console Output:

```
<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 previous screenshot. The console output shows the program running with the input "Gowtham". The JUnit assertion fails because the reversed string is "mhtawG" instead of "mani". The console output includes the exception message and the stack trace.

```
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
```

Console Output:

```
<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 :
mhtawG
Exception 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.