

### 30. JUNIT TESTING TO CHECK WHETHER THE GIVEN NUMBER IS PALINDROME OR NOT

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#### AIM

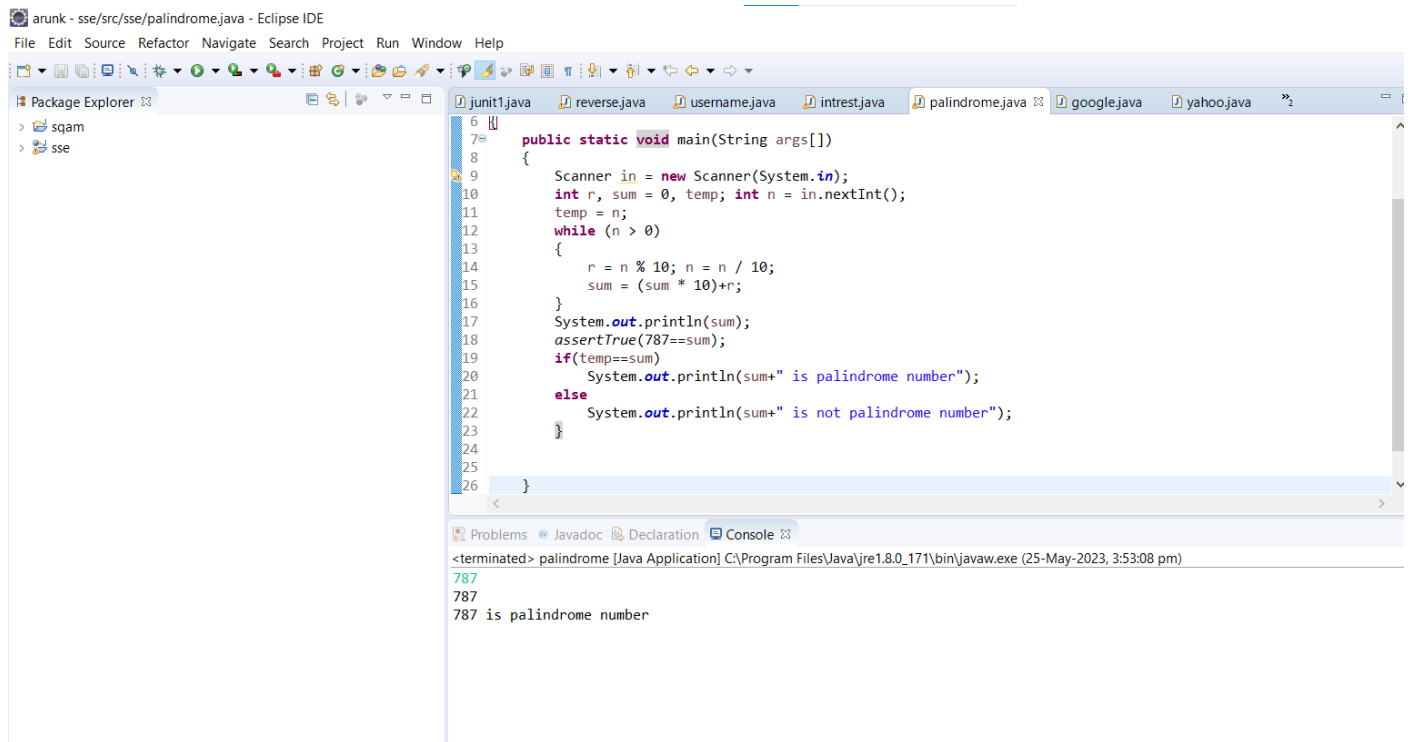
To Perform junit Testing to Check Whether the given number is palindrome or not.

#### PROGRAM

```
package sse;

import java.util.Scanner;
import static org.junit.Assert.assertTrue;
public class palindrome
{
    public static void main(String args[])
    {
        Scanner in = new Scanner(System.in);
        int r, sum = 0, temp; int n = in.nextInt();
        temp = n;
        while (n > 0)
        {
            r = n % 10; n = n / 10;
            sum = (sum * 10)+r;
        }
        System.out.println(sum);
        assertTrue(787==sum);
        if(temp==sum)
            System.out.println(sum+" is palindrome number");
        else
            System.out.println(sum+" is not palindrome number");
    }
}
```

## OUTPUT

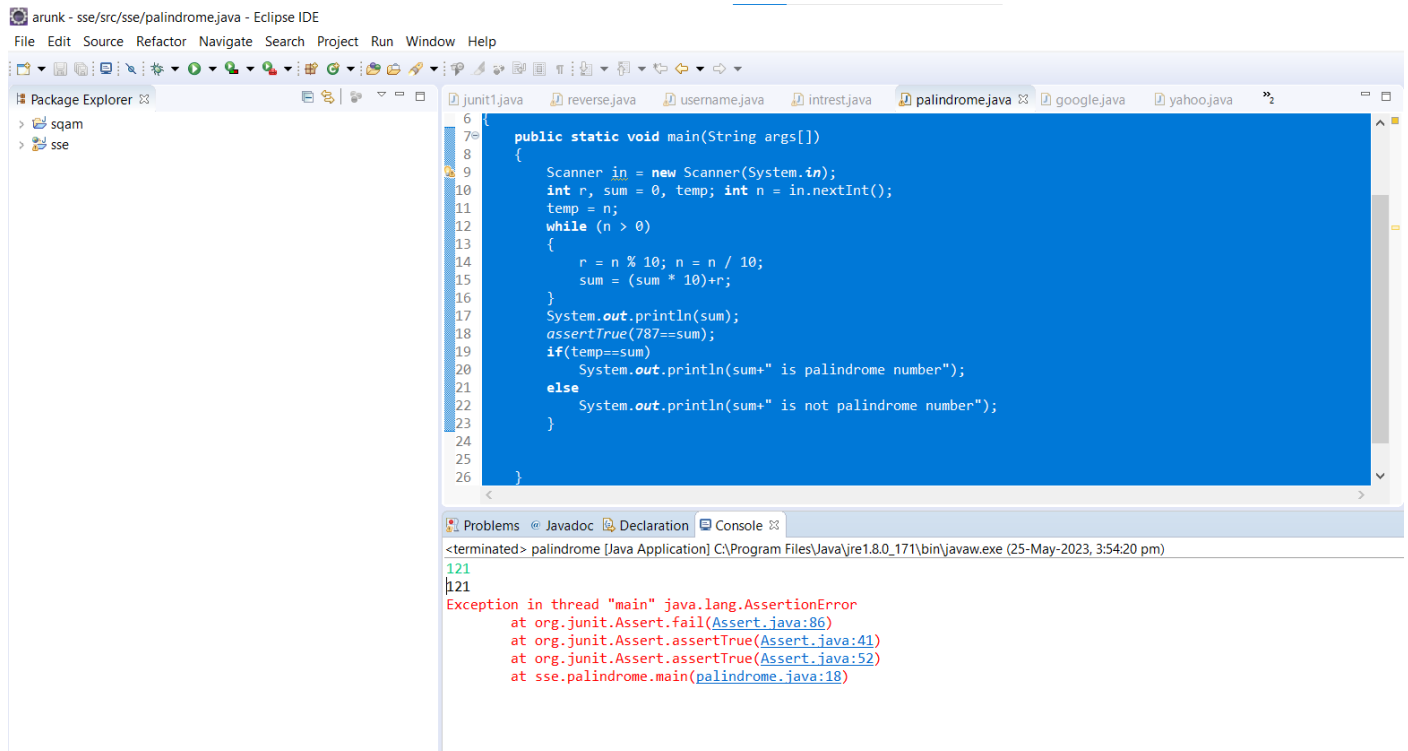


The screenshot shows the Eclipse IDE with a Java project named 'sse'. The 'Package Explorer' on the left shows the project structure. The main editor displays the code for 'palindrome.java'. The code is a Java program that takes an integer input and checks if it is a palindrome. The console output shows the program running successfully and printing '787 is palindrome number'.

```
6 public static void main(String args[])
7 {
8     Scanner in = new Scanner(System.in);
9     int r, sum = 0, temp; int n = in.nextInt();
10    temp = n;
11    while (n > 0)
12    {
13        r = n % 10; n = n / 10;
14        sum = (sum * 10) + r;
15    }
16    System.out.println(sum);
17    assertTrue(787==sum);
18    if(temp==sum)
19        System.out.println(sum+" is palindrome number");
20    else
21        System.out.println(sum+" is not palindrome number");
22 }
23
24
25
26 }
```

Console Output:

```
<terminated> palindrome [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (25-May-2023, 3:53:08 pm)
787
787 is palindrome number
```



The screenshot shows the Eclipse IDE with the same Java project 'sse'. The main editor displays the code for 'palindrome.java'. The console output shows the program running and then failing with an 'AssertionError' because the assertion 'assertTrue(787==sum)' failed. The error message indicates that the sum calculated was 787, which is not equal to the input 787.

```
6 {
7 public static void main(String args[])
8 {
9     Scanner in = new Scanner(System.in);
10    int r, sum = 0, temp; int n = in.nextInt();
11    temp = n;
12    while (n > 0)
13    {
14        r = n % 10; n = n / 10;
15        sum = (sum * 10) + r;
16    }
17    System.out.println(sum);
18    assertTrue(787==sum);
19    if(temp==sum)
20        System.out.println(sum+" is palindrome number");
21    else
22        System.out.println(sum+" is not palindrome number");
23 }
24
25
26 }
```

Console Output:

```
<terminated> palindrome [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (25-May-2023, 3:54:20 pm)
121
121
Exception in thread "main" java.lang.AssertionError
    at org.junit.Assert.fail(Assert.java:86)
    at org.junit.Assert.assertTrue(Assert.java:41)
    at org.junit.Assert.assertTrue(Assert.java:52)
    at sse.palindrome.main(palindrome.java:18)
```

## RESULT

Hence the junit Testing Check Whether the given number is palindrome or not performed successfully.