

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

MANOJ P

192011146

#### AIM

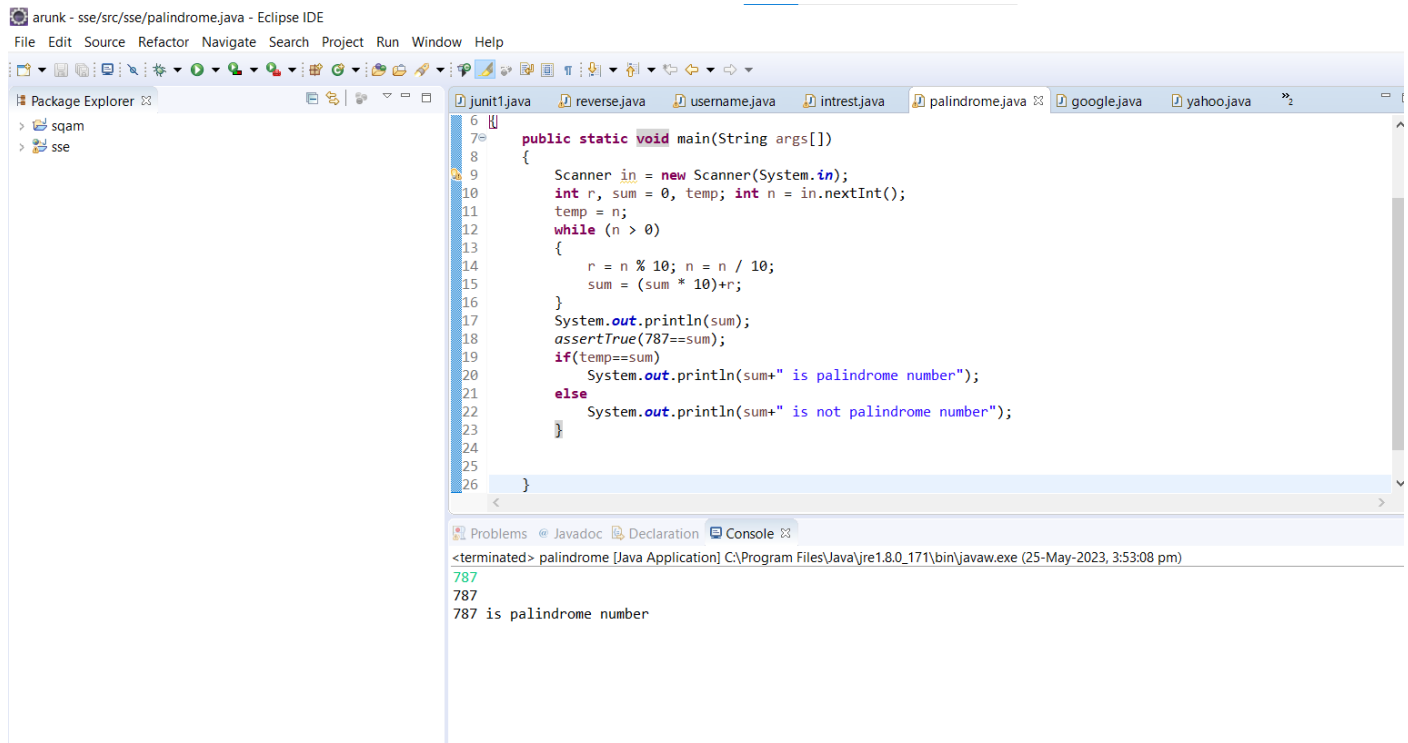
To Perform junit Testing to Check Whether the given number is palindrome or not.

#### 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



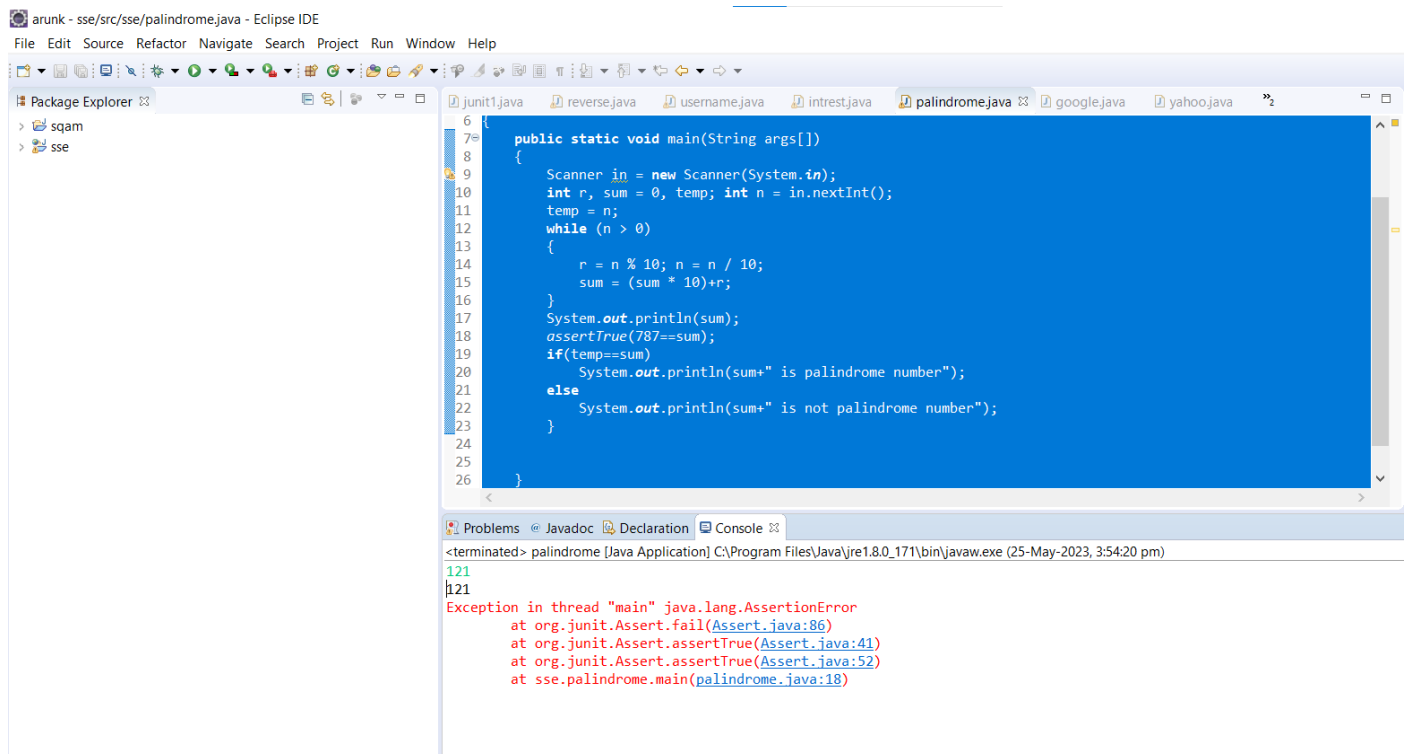
The screenshot shows the Eclipse IDE with a Java project named 'sse'. The 'Package Explorer' on the left shows the project structure. The main editor displays the source code for 'palindrome.java'. The code defines a 'main' method that uses a 'Scanner' to take input, calculates the reverse of the number, and checks if it is a palindrome. The 'Console' at the bottom shows the output: '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
```

Problems Javadoc Declaration Console

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

787  
787  
787 is palindrome number



The screenshot shows the Eclipse IDE with the same Java project. The 'Console' at the bottom shows an exception: 'Exception in thread "main" java.lang.AssertionError'. The error message indicates that the assertion 'assertTrue(787 == sum)' failed because the sum was 121, not 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
```

Problems Javadoc Declaration Console

<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.