

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

AIM

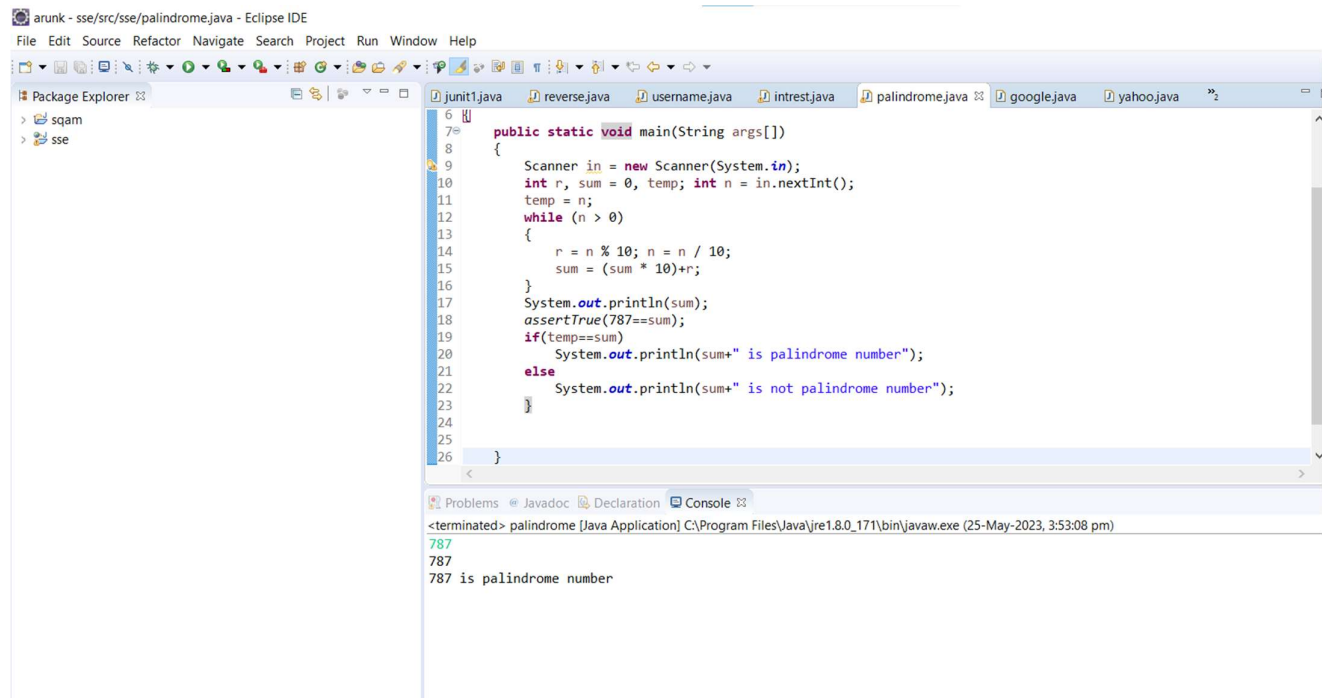
To Perform junit Testing to Check Whether the given number is palindrome or not.

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



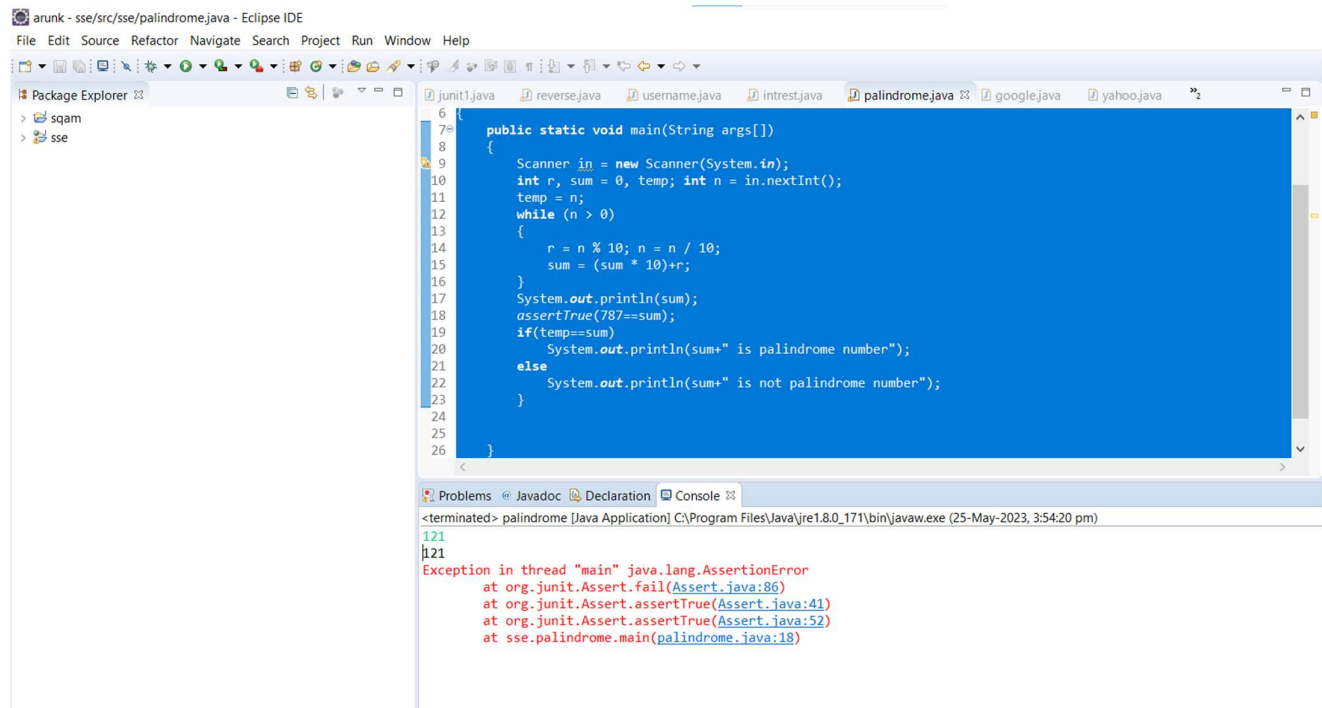
The screenshot shows the Eclipse IDE with the file `palindrome.java` open. The code is a Java application that takes an integer input and checks if it is a palindrome. The console output shows the program terminated successfully, printing the number 787 and confirming it is a palindrome.

```
arunk - sse/src/sse/palindrome.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer
> sqam
> sse

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 }

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 file `palindrome.java` open. The code is the same as in the previous screenshot. However, the console output shows an exception in the main thread, indicating that the assertion failed because the sum (121) did not equal the original number (787).

```
arunk - sse/src/sse/palindrome.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer
> sqam
> sse

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
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.