

EXPERIMENT 30:JUNIT FOR PALINDROME OR NOT

CODE:

```
package jnn;
import java.util.Scanner;
import static org.junit.Assert.assertTrue;
public class gm
{
```

```
    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");
```

```
        }
```

```
    }
```

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OUTPUT:

The screenshot displays the Eclipse IDE interface. The main editor shows a Java file named `gm.java` with the following code:

```
1 package jnn;
2 import java.util.Scanner;
3
4 public class gm
5 {
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
27
28
```

The Package Explorer on the left shows the project structure, including the `src` folder and the `gm.java` file. The Console window at the bottom shows the execution output:

```
<terminated> gm [Java Application] C:\Program Files\Java\jre1.8.0_211\bin\javaw.exe (25-May-2023, 11:26:00 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 jnn.gm.main(gm.java:17)
```

The status bar at the bottom indicates the system temperature is 31°C, the weather is mostly cloudy, and the date is 25-05-2023.