

## **28. JUNIT TESTING TO CHECK WHETHER THE GIVEN USERNAME IS VALID OR NOT**

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### **AIM**

To Perform junit Testing to Check Whether the given Username is Valid or not

### **PROGRAM**

```
package sse;
```

```
import static org.junit.Assert.assertEquals;
```

```
import java.util.Scanner;
```

```
public class username {
```

```
public static void main(String [] args)
```

```
{
```

```
    Scanner in=new Scanner(System.in);
```

```
        System.out.println("enter the user name");
```

```
    String str1=in.nextLine();
```

```
    System.out.println("Reenter the user name");
```

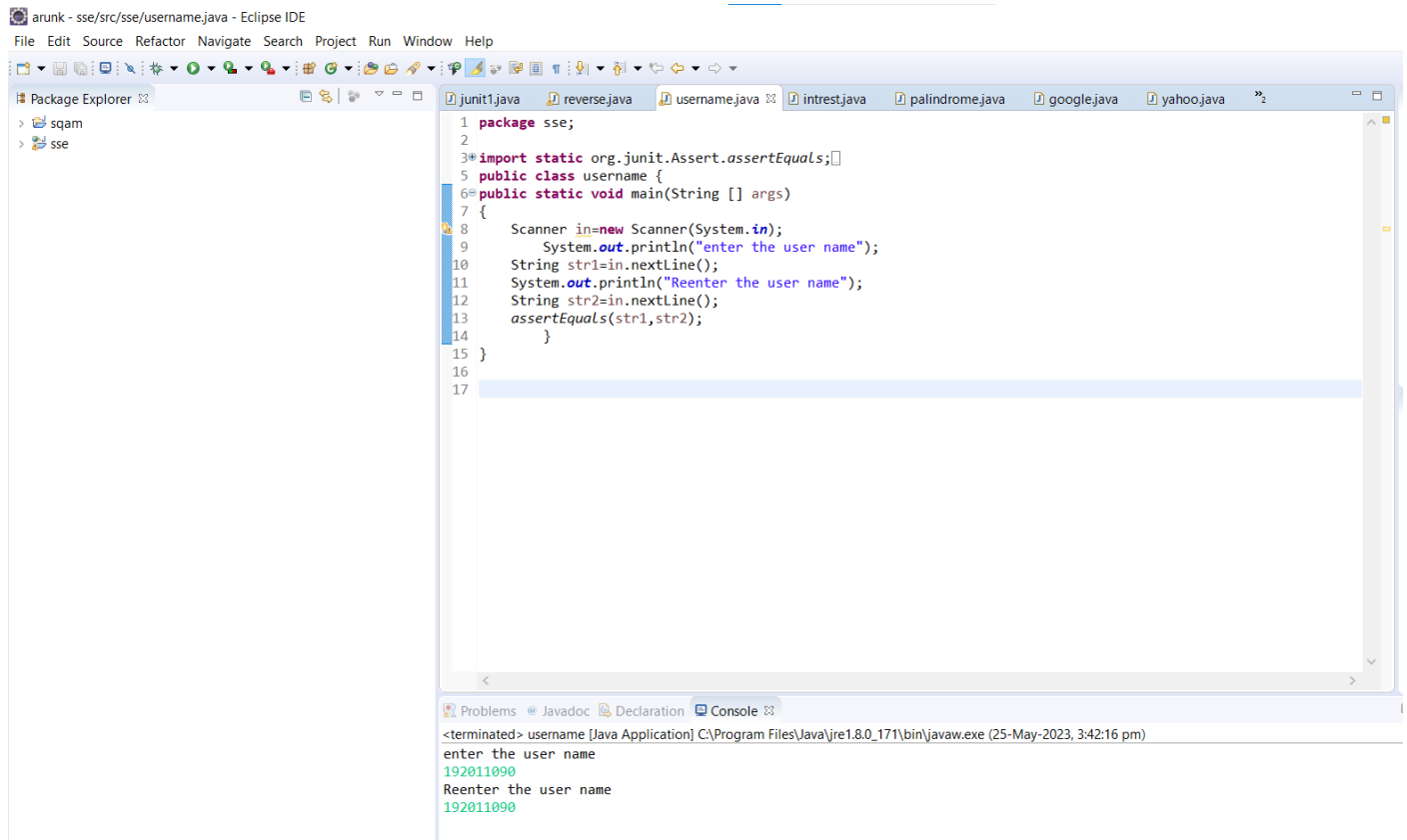
```
    String str2=in.nextLine();
```

```
    assertEquals(str1,str2);
```

```
    }
```

```
}
```

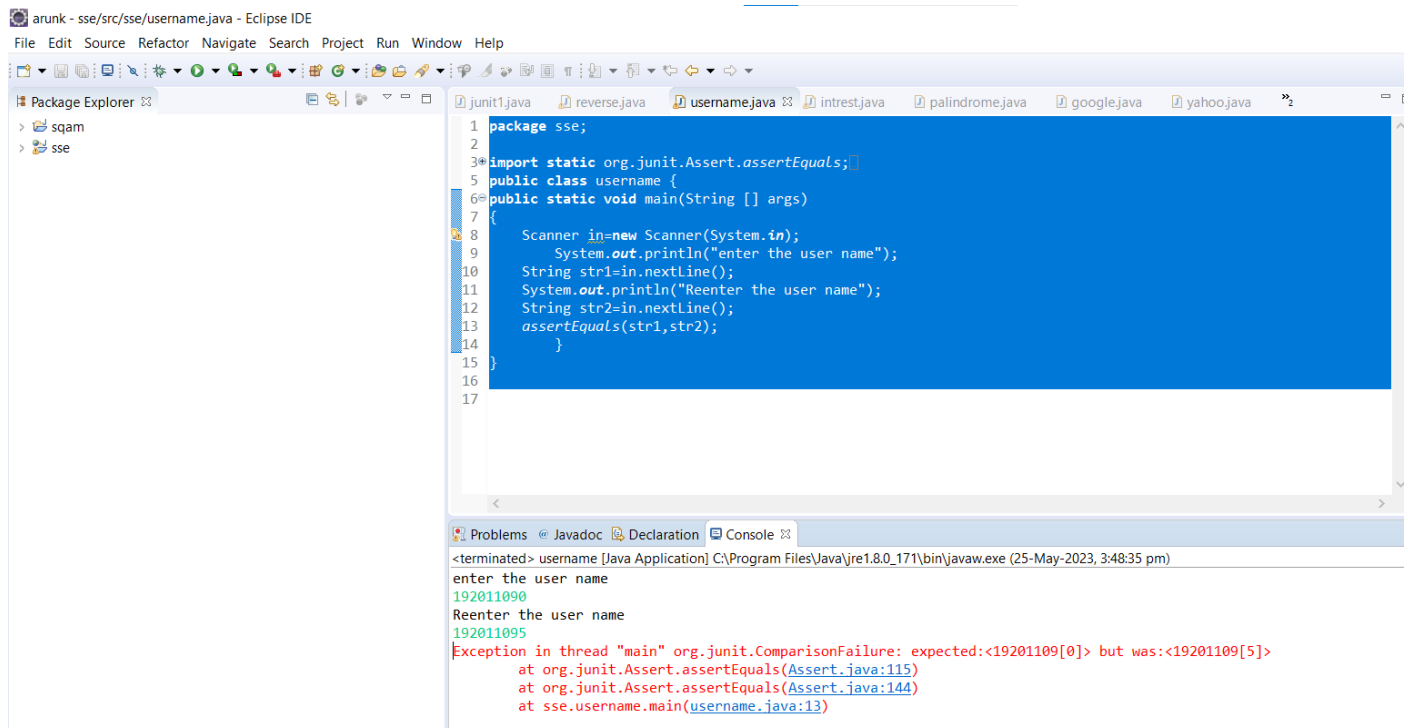
## OUTPUT



The screenshot shows the Eclipse IDE with the file `username.java` open. The code defines a package `sse` and a class `username` with a `main` method that prompts the user to enter a name twice and asserts that the two inputs are equal. The Package Explorer on the left shows the project structure with `sqam` and `sse` packages. The Console window at the bottom displays the output of the program: `<terminated> username [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (25-May-2023, 3:42:16 pm)`, followed by the prompts `enter the user name` and `Reenter the user name`, and the input `192011090` entered twice.

```
1 package sse;
2
3 import static org.junit.Assert.assertEquals;
4
5 public class username {
6     public static void main(String [] args)
7     {
8         Scanner in=new Scanner(System.in);
9         System.out.println("enter the user name");
10        String str1=in.nextLine();
11        System.out.println("Reenter the user name");
12        String str2=in.nextLine();
13        assertEquals(str1,str2);
14    }
15 }
16
17
```

`<terminated> username [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (25-May-2023, 3:42:16 pm)`  
enter the user name  
192011090  
Reenter the user name  
192011090



The screenshot shows the Eclipse IDE with the file `username.java` open. The code is identical to the previous screenshot. However, the Console window at the bottom displays an exception: `Exception in thread "main" org.junit.ComparisonFailure: expected:<19201109[0]> but was:<19201109[5]>`. The stack trace indicates the failure occurred at `org.junit.Assert.assertEquals` (line 115) and `sse.username.main` (line 13). The Package Explorer on the left shows the project structure with `sqam` and `sse` packages.

```
1 package sse;
2
3 import static org.junit.Assert.assertEquals;
4
5 public class username {
6     public static void main(String [] args)
7     {
8         Scanner in=new Scanner(System.in);
9         System.out.println("enter the user name");
10        String str1=in.nextLine();
11        System.out.println("Reenter the user name");
12        String str2=in.nextLine();
13        assertEquals(str1,str2);
14    }
15 }
16
17
```

`<terminated> username [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (25-May-2023, 3:48:35 pm)`  
enter the user name  
192011090  
Reenter the user name  
192011095  
Exception in thread "main" org.junit.ComparisonFailure: expected:<19201109[0]> but was:<19201109[5]>  
at org.junit.Assert.assertEquals(Assert.java:115)  
at org.junit.Assert.assertEquals(Assert.java:144)  
at sse.username.main(username.java:13)

## RESULT

Hence the junit Testing to Check Whether the given Username is Valid or not performed successfully.