29. Junit Testing to Check Whether the Calculated simple interest is valid or not

AIM

To Perform junit Testing to Check Whether the Calculated simple interest is valid or not
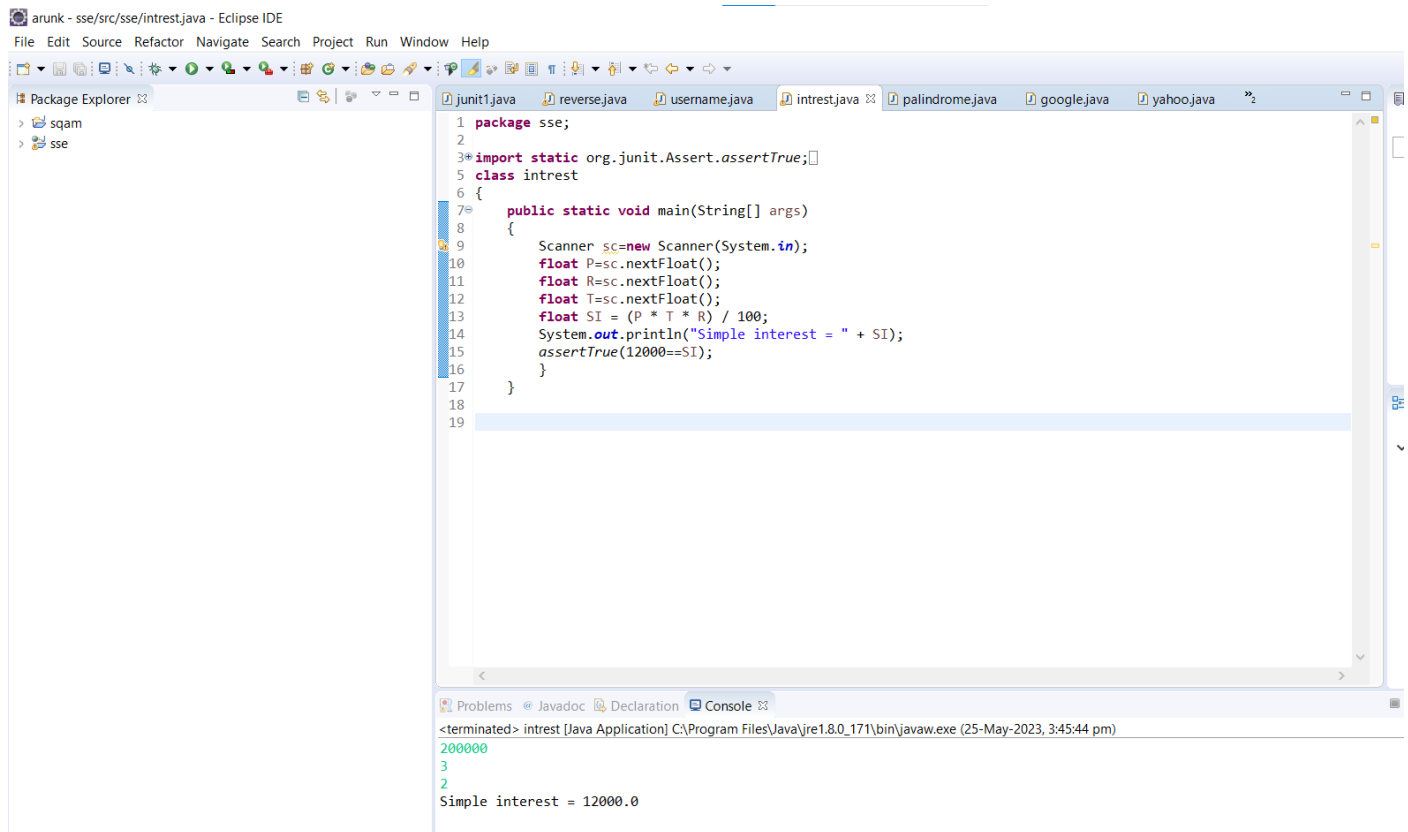
PROGRAM

```java
package sse;

import static org.junit.Assert.assertTrue;
import java.util.Scanner;
class intrest
{
        public static void main(String[] args)
        {
                Scanner sc=new Scanner(System.in);
                float P=sc.nextFloat();
                float R=sc.nextFloat();
                float T=sc.nextFloat();
                float SI = (P * T * R) / 100;
                System.out.println("Simple interest = " + SI);
                assertTrue(12000==SI);
                }
        }
```
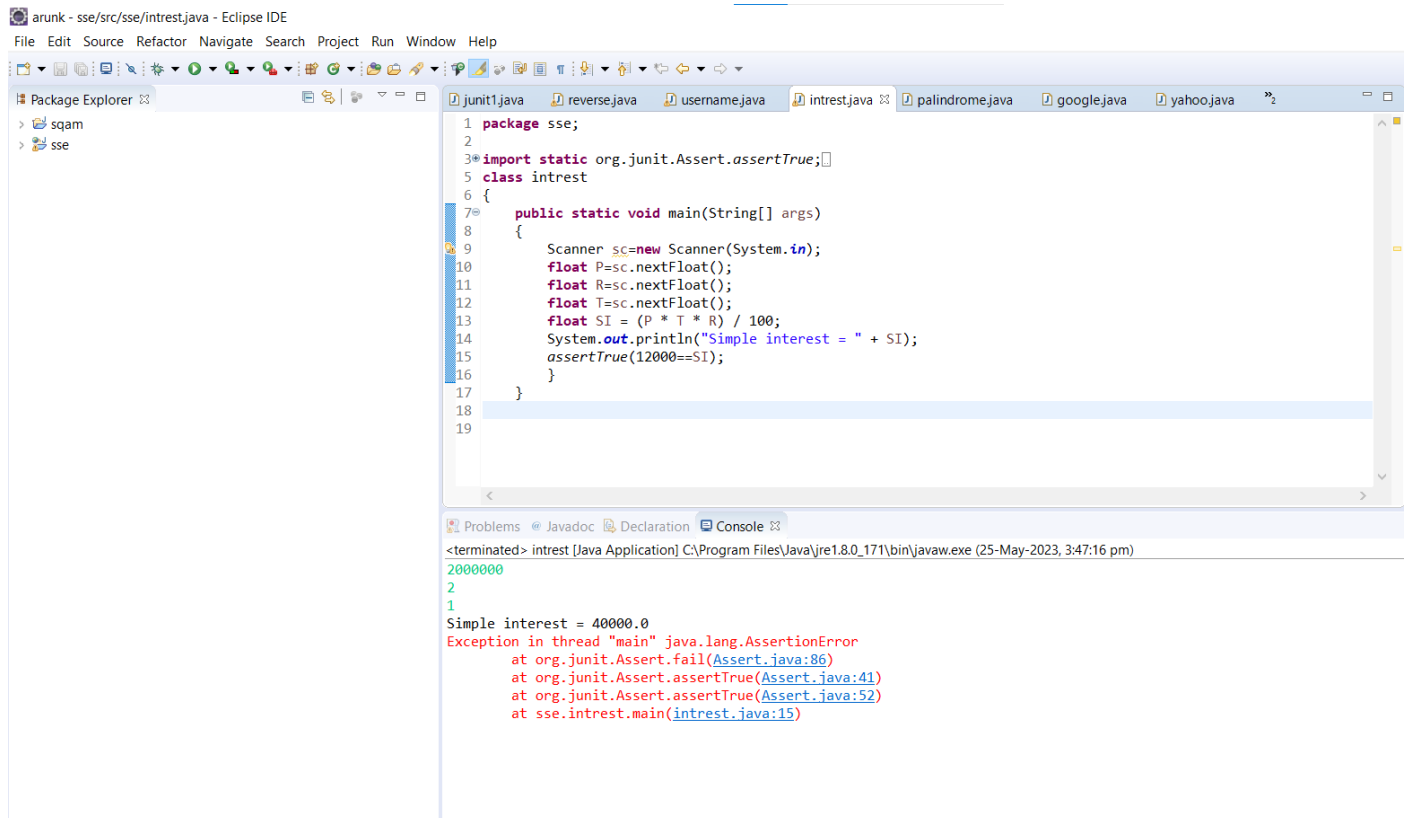
OUTPUT

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer
- sqam
- sse

```java
1  package sse;
2
3  import static org.junit.Assert.assertTrue;
5  class intrest
6  {
7      public static void main(String[] args)
8      {
9          Scanner sc=new Scanner(System.in);
10         float P=sc.nextFloat();
11         float R=sc.nextFloat();
12         float T=sc.nextFloat();
13         float SI = (P * T * R) / 100;
14         System.out.println("Simple interest = " + SI);
15         assertTrue(12000==SI);
16         }
17     }
18
19
```

Problems @ Javadoc Declaration **Console**

<terminated> intrest [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (25-May-2023, 3:45:44 pm)
```
200000
3
2
Simple interest = 12000.0
```

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Package Explorer
- sqam
- sse

```java
1  package sse;
2
3  import static org.junit.Assert.assertTrue;
5  class intrest
6  {
7      public static void main(String[] args)
8      {
9          Scanner sc=new Scanner(System.in);
10         float P=sc.nextFloat();
11         float R=sc.nextFloat();
12         float T=sc.nextFloat();
13         float SI = (P * T * R) / 100;
14         System.out.println("Simple interest = " + SI);
15         assertTrue(12000==SI);
16         }
17     }
18
19
```

Problems @ Javadoc Declaration **Console**

<terminated> intrest [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (25-May-2023, 3:47:16 pm)
```
2000000
2
1
Simple interest = 40000.0
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.intrest.main(intrest.java:15)
```

RESULT

Hence the junit Testing Check Whether the Calculated simple interest is valid or not performed successfully.