29. JUNIT TESTING TO CHECK WHETHER THE SIMPLE INTEREST IS VALID OR NOT

AIM

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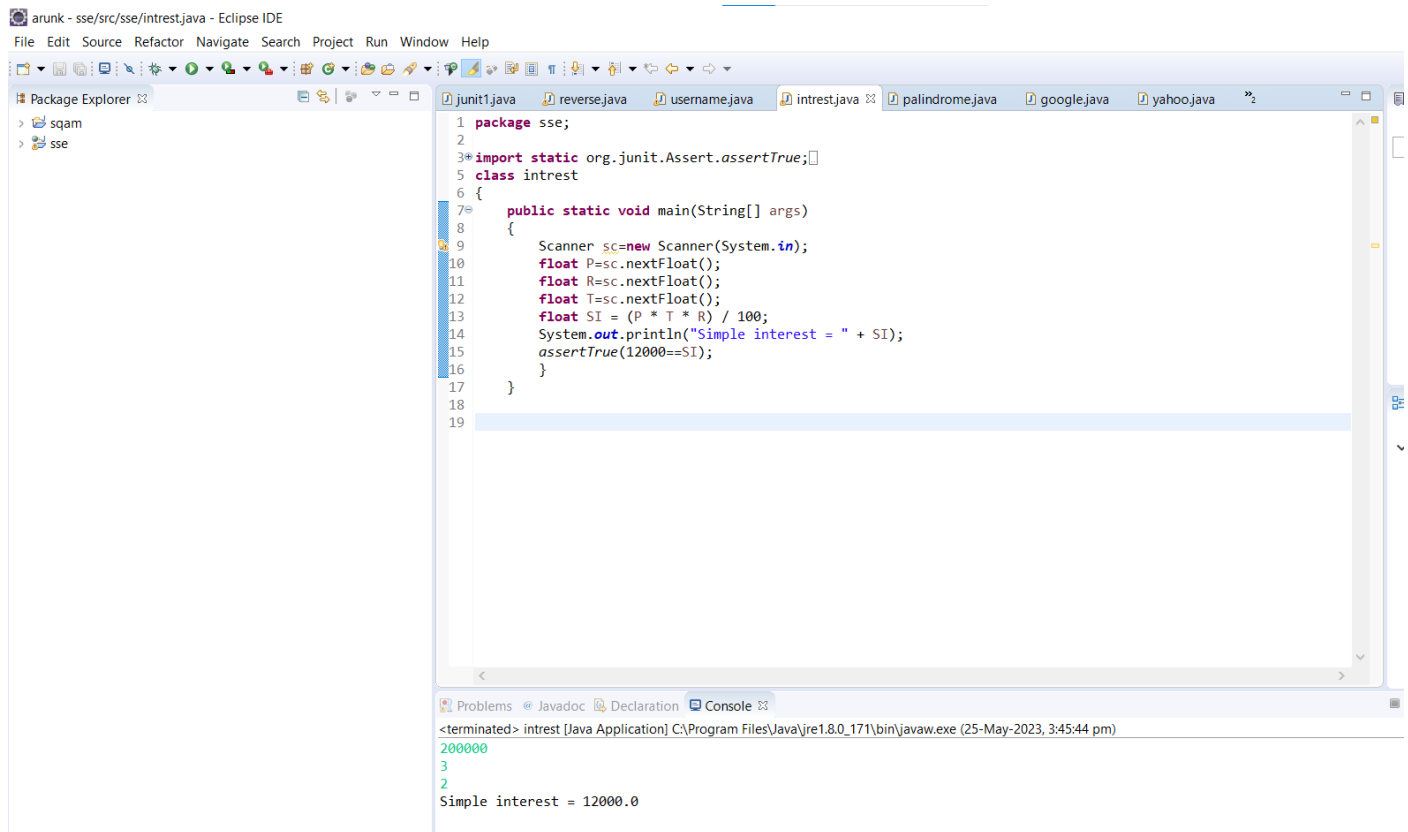
PROGRAM

```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);
                }
        }
```
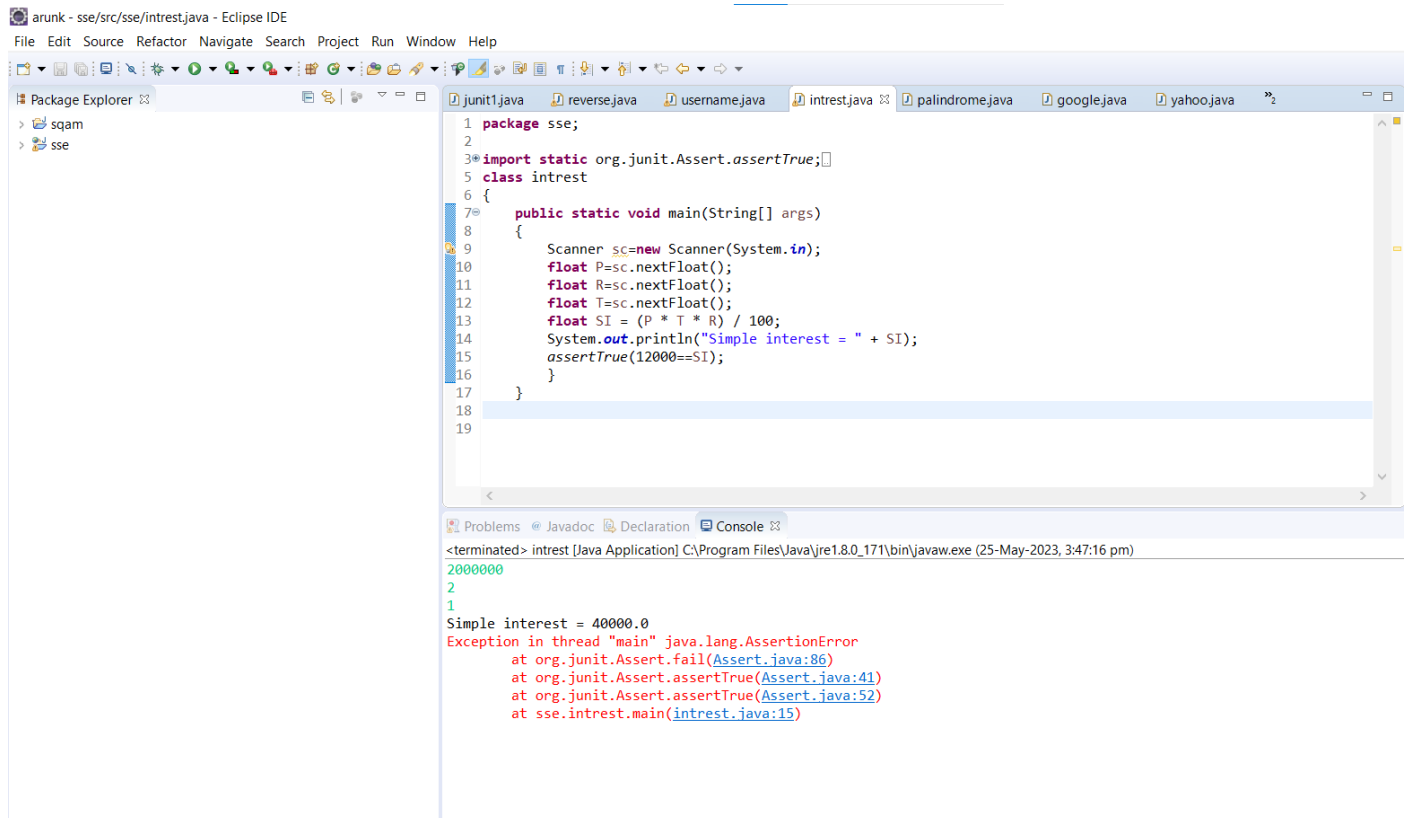
OUTPUT

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
```

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)
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9         Scanner sc=new Scanner(System.in);
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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.