

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

K. Lingamchary

192110717

AIM

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

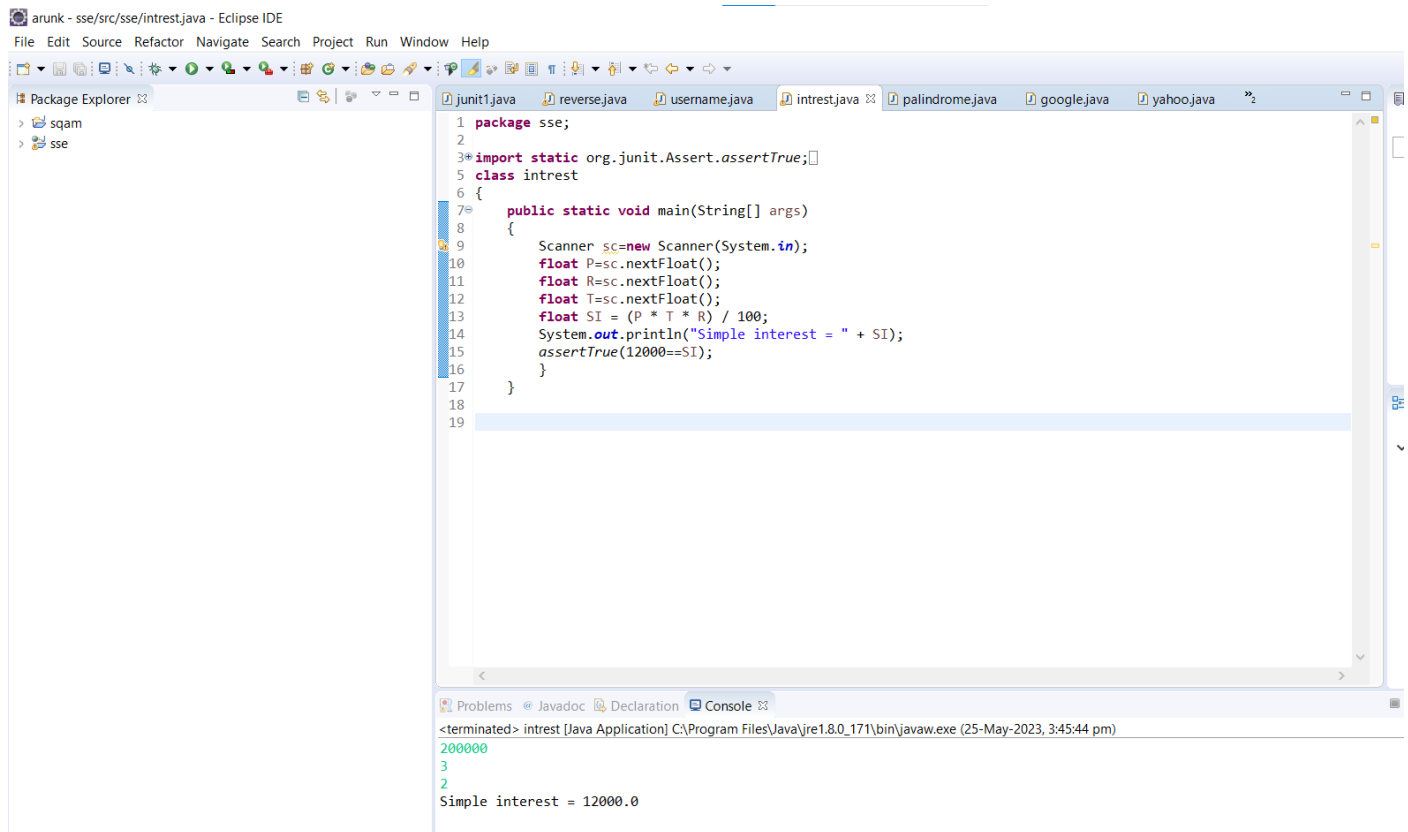
PROGRAM

```
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



arunk - sse/src/sse/intrest.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer: sqam, sse

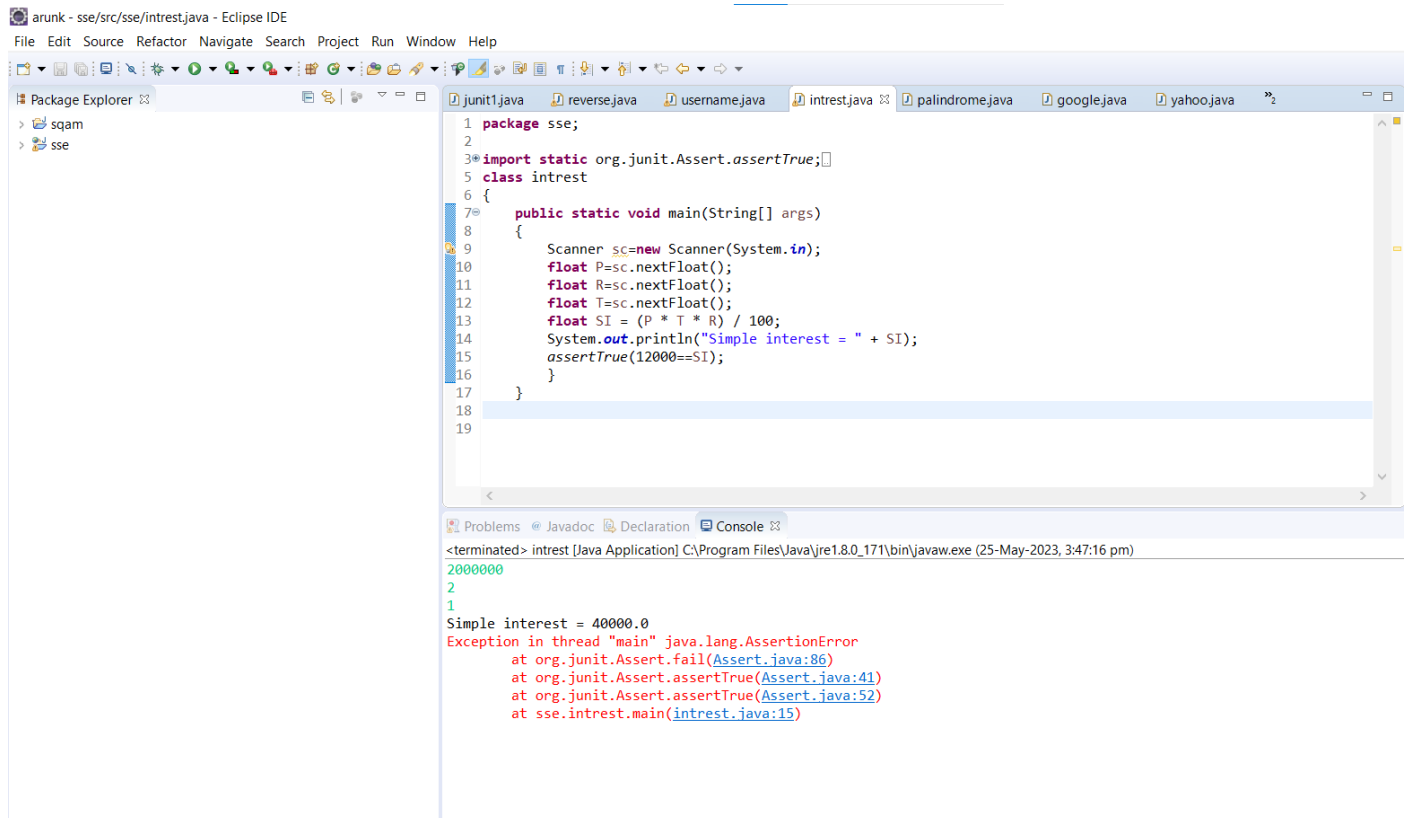
intrest.java

```
1 package sse;
2
3 import static org.junit.Assert.assertTrue;
4
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



arunk - sse/src/sse/intrest.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer: sqam, sse

intrest.java

```
1 package sse;
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3 import static org.junit.Assert.assertTrue;
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5 class intrest
6 {
7     public static void main(String[] args)
8     {
9         Scanner sc=new Scanner(System.in);
10        float P=sc.nextFloat();
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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.