

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

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AIM

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

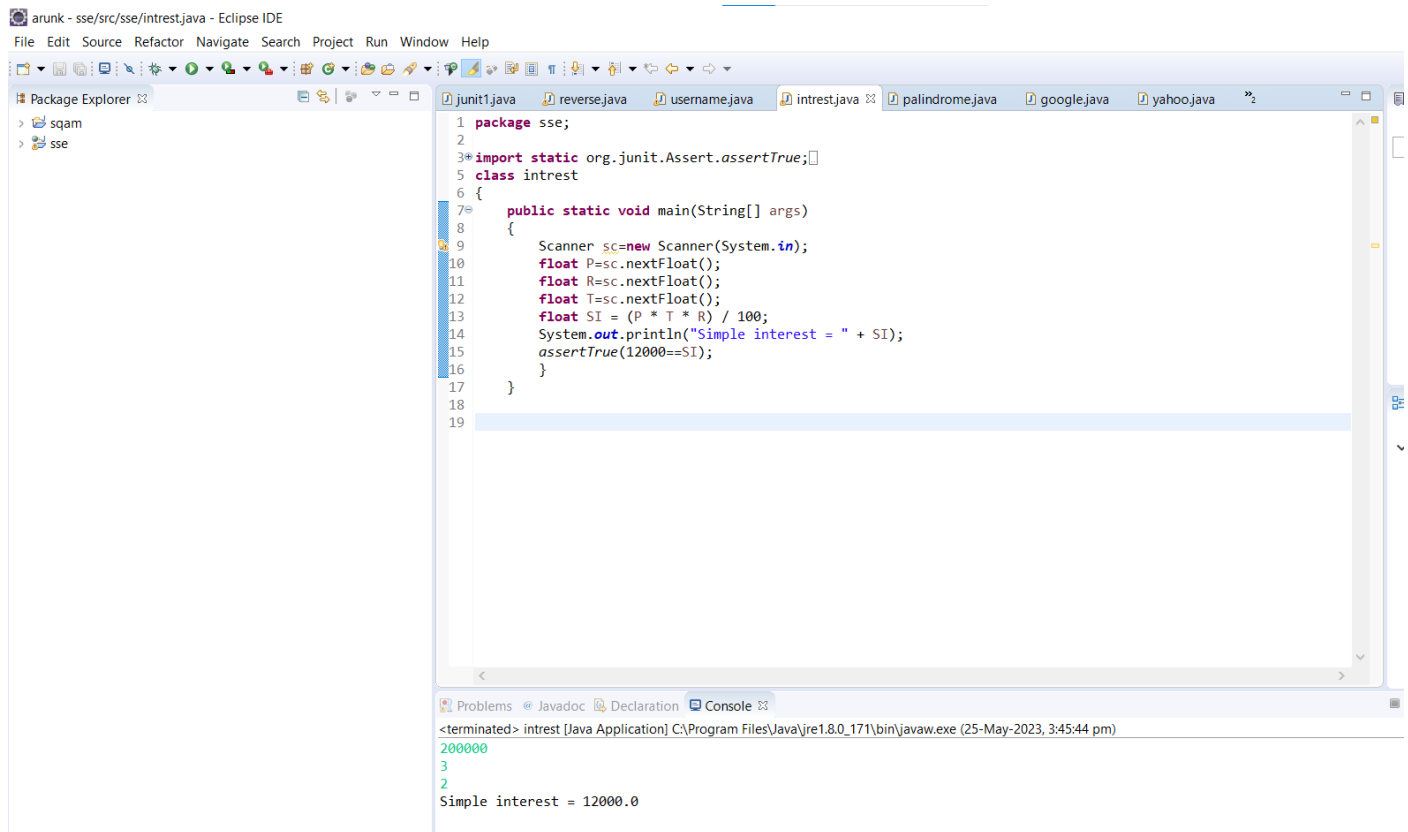
PROGRAM

```
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

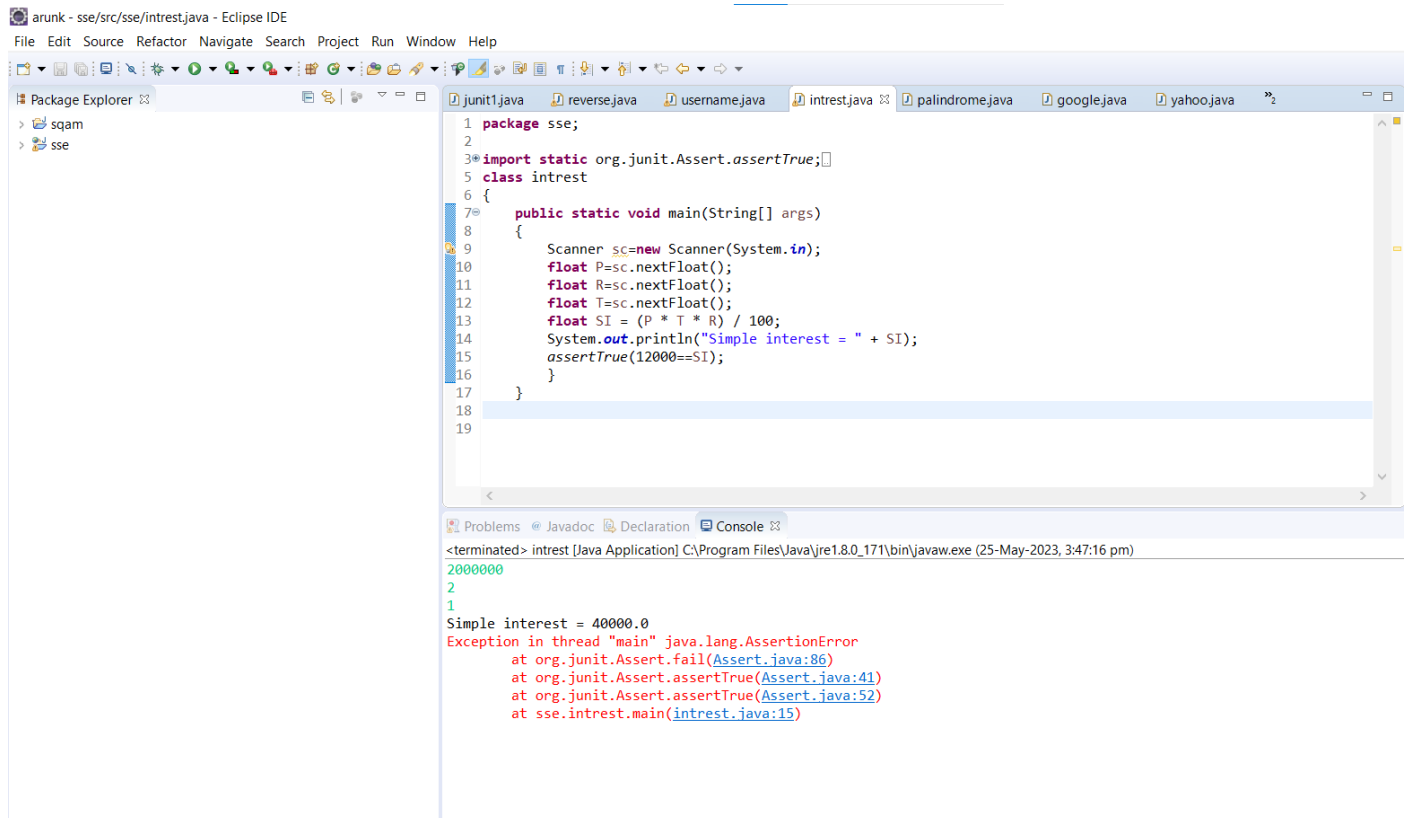
intrest.java

```
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)
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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.