

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

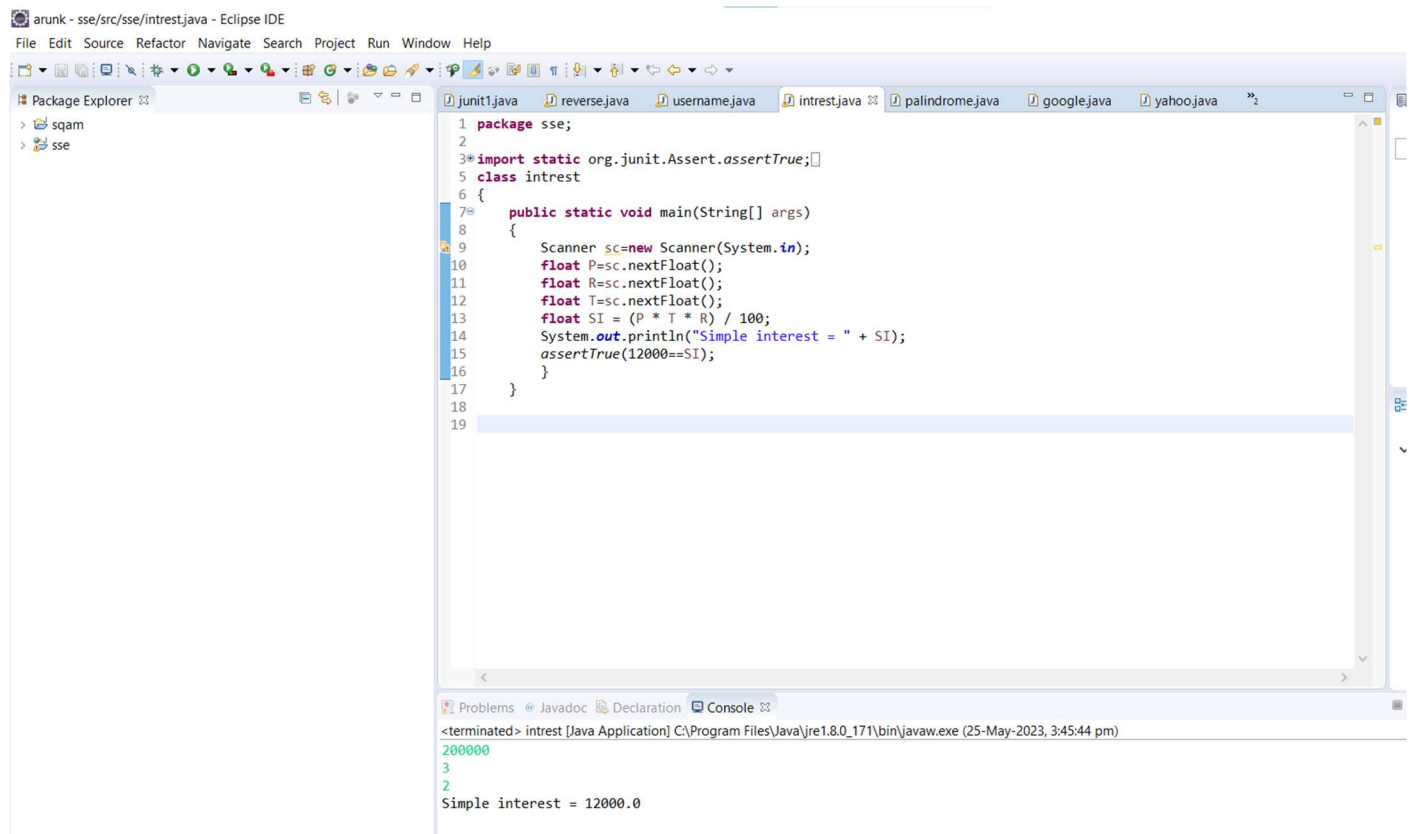
PROGRAM

```
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



The screenshot displays the Eclipse IDE interface. The Package Explorer on the left shows a project named 'sse' under a workspace named 'sqam'. The main editor window shows the source code for 'intrest.java' (note the typo in the filename). The code defines a package 'sse', imports 'org.junit.Assert.assertTrue', and defines a class 'intrest' with a 'main' method. The 'main' method uses a 'Scanner' to take input for principal (P), rate (R), and time (T), calculates simple interest (SI) using the formula $SI = (P * T * R) / 100$, prints the result, and includes an assertion 'assertTrue(12000==SI);'. The bottom console window shows the output of the program: '200000', '3', '2', and 'Simple interest = 12000.0'. The console also shows the command prompt path and the time of execution: 'C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (25-May-2023, 3:45:44 pm)'.

```
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
```

<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

RESULT

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