

EXPERIMENT 29: JUNIT TO CALCULATE SIMPLE INTEREST

CODE:

```
package simpleinterst;

import static org.junit.Assert.assertTrue;

import java.util.Scanner;

class si
{
    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;

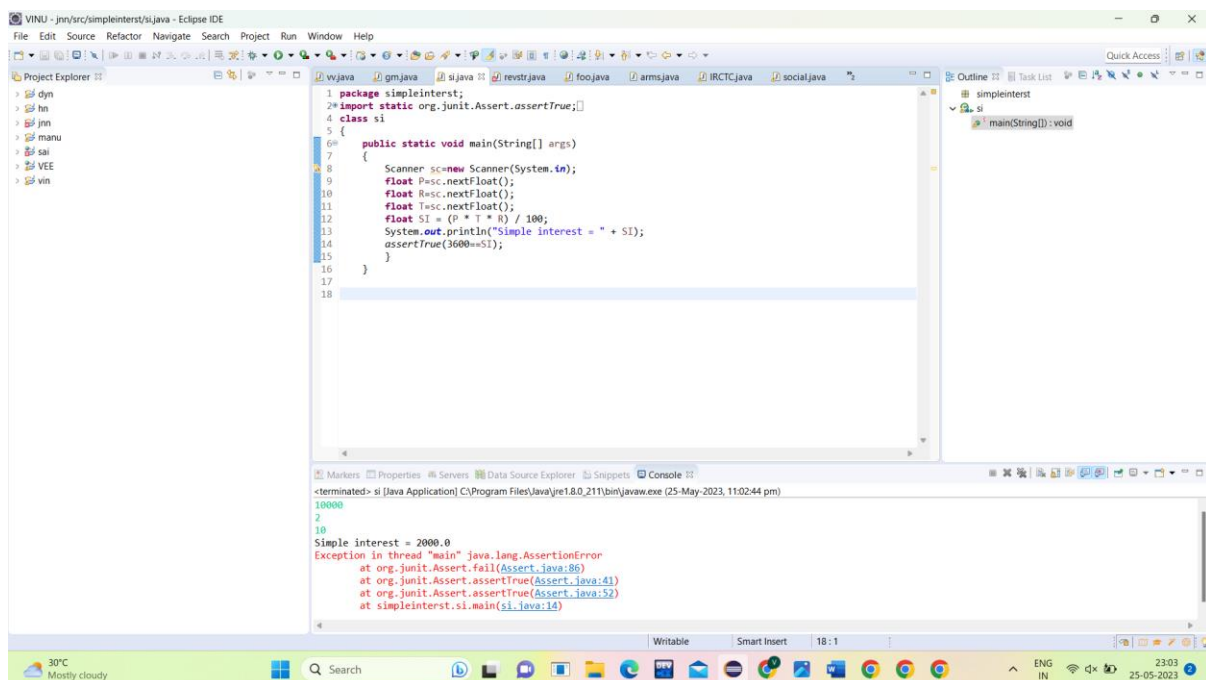
        System.out.println("Simple interest = " + SI);

        assertTrue(3600==SI);

    }
}
```

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OUTPUT:



The screenshot shows the Eclipse IDE interface. The main editor displays the Java code for calculating simple interest. The console output shows the program execution results, including the calculated simple interest and an assertion error.

```
1 package simpleinterst;
2 import static org.junit.Assert.assertTrue;
3
4 class si
5 {
6     public static void main(String[] args)
7     {
8         Scanner sc=new Scanner(System.in);
9         float P=sc.nextFloat();
10        float R=sc.nextFloat();
11        float T=sc.nextFloat();
12        float SI = (P * T * R) / 100;
13        System.out.println("Simple interest = " + SI);
14        assertTrue(3600==SI);
15    }
16 }
17
18
```

Console Output:

```
<terminated> si [Java Application] C:\Program Files\Java\jre1.8.0_211\bin\javaw.exe (25-May-2023, 11:02:44 pm)
10000
2
10
Simple interest = 2000.0
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 simpleinterst.si.main(si.java:14)
```