

## 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();

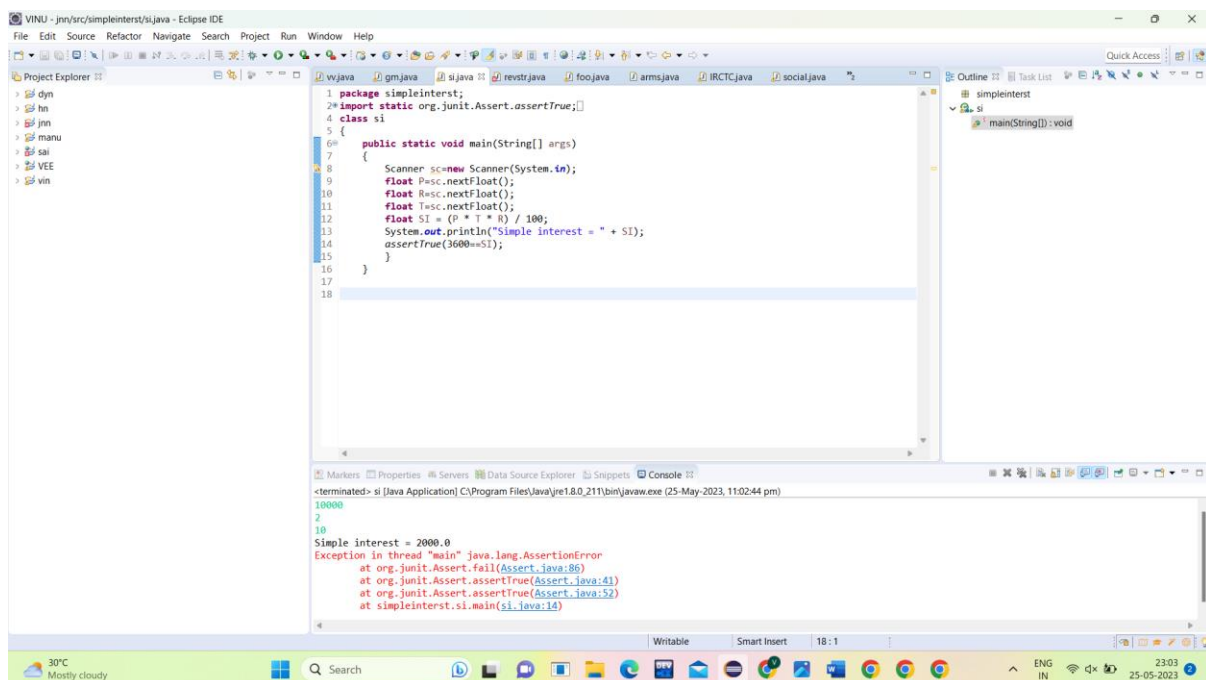
        float SI = (P * T * R) / 100;

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

        assertTrue(3600==SI);

    }
}
```

### OUTPUT:



The screenshot shows the Eclipse IDE with the following components:

- Project Explorer:** Shows a project named 'simpleinterst' with a package 'si' containing a class 'si'.
- Editor:** Displays the source code of the 'si' class, which is identical to the code provided in the 'CODE' section.
- Console:** Shows the output of the program. It starts with a 'terminated' message, followed by the input values '10000', '2', and '10'. The output then shows 'Simple interest = 2000.0'. Below this, an exception is displayed: 'Exception in thread "main" java.lang.AssertionError' with the message 'at org.junit.Assert.fail(Assert.java:86)' and 'at org.junit.Assert.assertTrue(Assert.java:41)'. The stack trace indicates the error occurred in 'simpleinterst.si.main(simpleinterst.si.java:14)'.