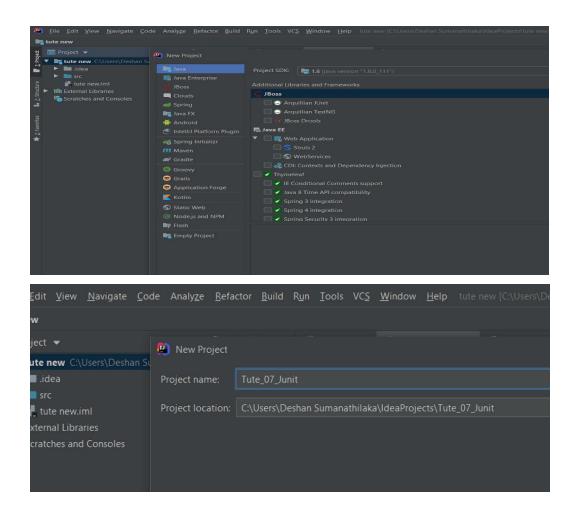


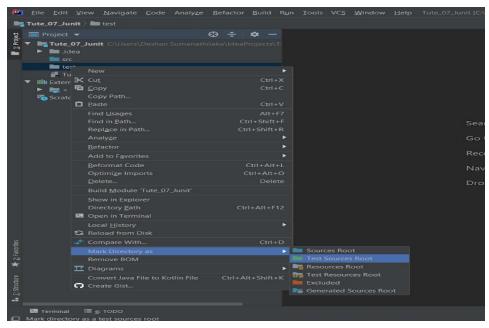
Tutorial 07 - Unit Testing Junit

Que 1 . What is unit Testing?	
Que 2. What are the Benefits of Unit Testing ?	
Que 03. Java and Junit	

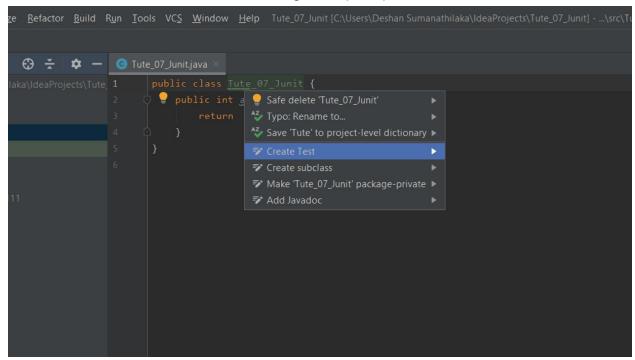
a. Create a new java project and name it tute_07_Junit

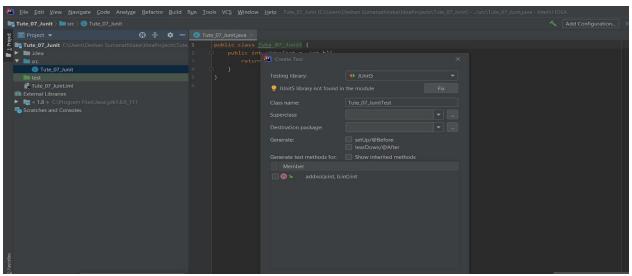


 b. Create New Directory with the name test and make directory as Test Source Root



- c. Create a new java class named JunitExample and create a method named addNumbers which accepts two integer parameters.
- d. Create a test for class. Use alt+ enter to get the prompt.

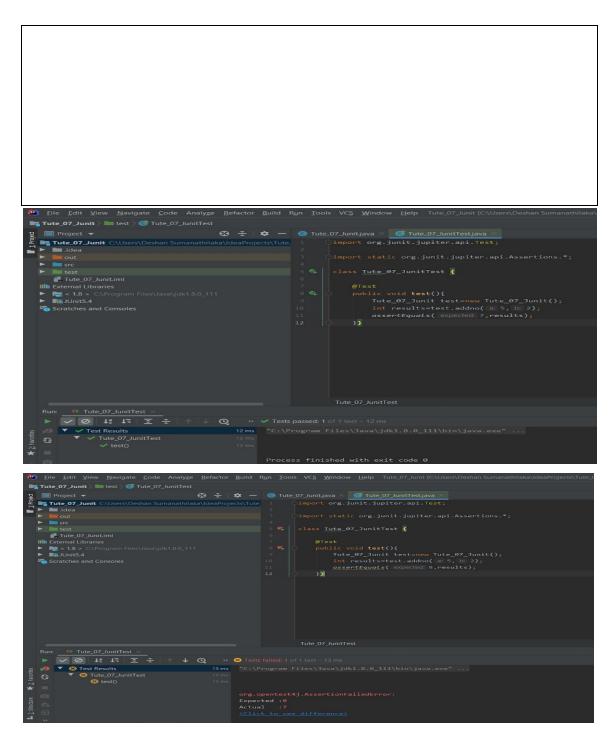




- e. Select Junit4 and click ok.
 - (if you have a warning message Junit library not found in the module, click fix and to the necessary changes)
- f. The new test file is available in the test directory.
- g. Use AssertEquals method to test if the method outputs the correct result
- h. Now test the results for two cases.Create a test plan and Write your Observations

Eg: a=5 , b=2 a=5 , b=2

Expected value: 7 Expected value: 8



Que 04. Lecture Question

Refer to the lecture on unit testing and do the example given(Calculator).

Create a unit test for add and multiply.

```
public class Calculator {
    public static int add(int firstNumber, int secondNumber) {
        return firstNumber + secondNumber;
    }
    public static int multiply(int multiplicand, int multiplier) {
        return multiplicand * multiplier;
    }
}
```

Question 5

In the same calculator class write a division method. And right click on the class and update the test and go to show context actions and add a test method for division. The test method should be expecting the divide by zero arithmetic exception. Write the test method to divide by zero.