

CODE QUALITY – LAB 10
EC 5080 – SOFTWARE CONSTRUCTION

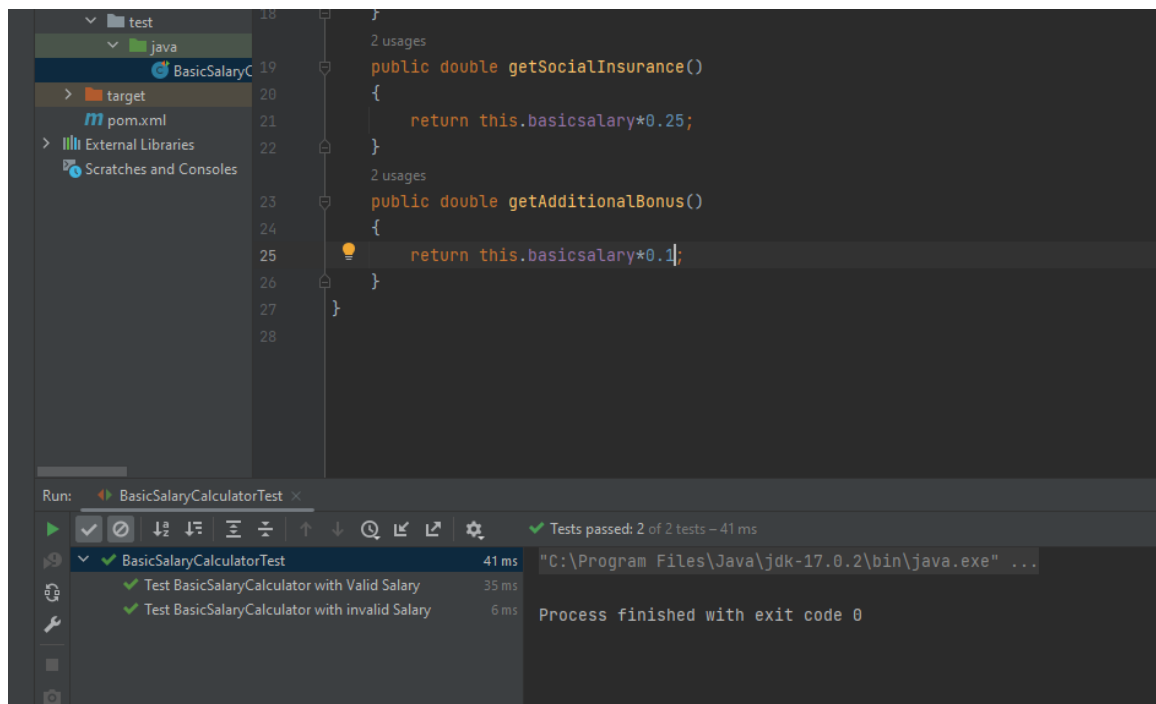
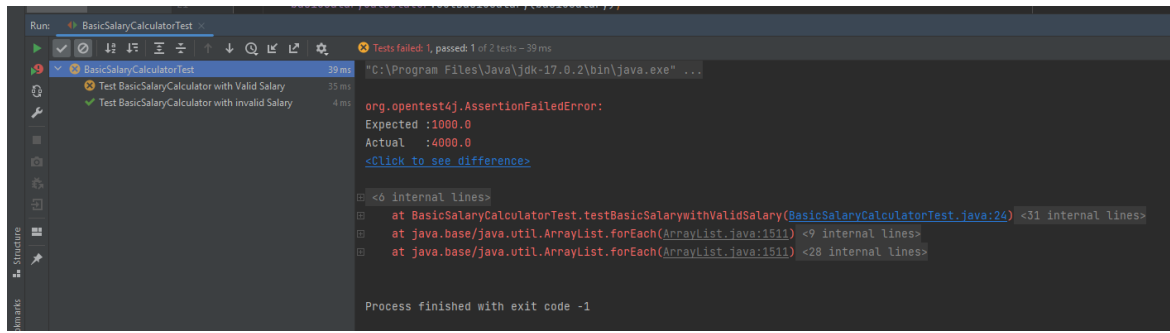
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2019/E/166

SEMESTER 05

09 NOVEMBER 2022

TASK 01



```

14      basicSalaryCalculator = new BasicSalaryCalculator();
15  }
16  @DisplayName("Test BasicSalaryCalculator with Valid Salary")
17  @Test
18  void testBasicSalarywithValidSalary()
19  {
20      double basicSalary = 4000;
21      basicSalaryCalculator.setBasicSalary(basicSalary);
22
23      double expectedSocialInsurance = basicSalary;
24      assertEquals(expectedSocialInsurance,basicSalaryCalculator.getSocialInsurance());
25
26      double expectedAdditionalBonus = basicSalary;
27      assertEquals(expectedAdditionalBonus,basicSalaryCalculator.getAdditionalBonus());
28
29      double expectedGross = basicSalary+expectedSocialInsurance+expectedAdditionalBonus;
30      assertEquals(expectedGross,basicSalaryCalculator.getGrossSalary());
31  }
32
33  @DisplayName("Test BasicSalaryCalculator with invalid Salary")
34  @Test
35  void testBasicSalarywithInvalidSalary()

```

Run: BasicSalaryCalculatorTest

Tests passed: 2 of 2 tests - 35 ms

Process finished with exit code 0

TASK 02

Lab Number	Test case (description/equation/java statement)	Expected Output
01	evaluate: 3 + 8	11
02	String[] stringArray = {"alpha","gamma","beta","delta"}; BS(stringArray); print(stringArray); FindDuplicateElements	alpha beta delta gamma [11,34,3]
03	Accounts(10000,1234567) getBalance() getAccountNumber()	10000 1234567
04	getAllOutgoingRoads()	city1->city4->city3
05		
06	findArguments("generic quit")	("gheneric","quit")
07		
08	setName("Kamal") getName() setRegNo("2019/E/166") getRegNo()	"Kamal" "2019/E/166"
09	clientMessage = "bye"	Exit

TASK 04

