In this Homework you will create a calculator class and will create a calculator test class to execute Junit testing. Specification details are as followings:

1. The calculator should be able to add, subtract, multiply, and divide. Two out of four operation interfaces are being provide (for addition and subtraction). You need to create the other two (multiplication and division) interfaces. A skeleton Calculator class is also provided. You need to flesh it out entirely.
2. You will need four test methods to perform unit testing on those four operations using Junit framework.
3. For each test method, you need to have 3 to 4 test cases with critical edge conditions using proper assert statements.
4. The test class must use @Before/@BeforeEach and setup().
5. The code should execute without any error syntactically and also semantically.
6. The code coverage for both calculator class and the test class should be 100% as well.
7. You will turn in all the java codes, which must run properly on Instructor’s computer.

Point distributions: [45 pts]

* + 1. Multiplication and Division interfaces: 2 x 2.5 = 5 pts.
    2. Calculator class: subtraction: 5 + multiplication: 5 + division: 5 = 15 pts.
    3. Calculator test class: @Before/@BeforeEach and setup(): 5 pts + 4 test methods x 5 pts = 25 pts.