```
//Calculator Class
public class Calculator {
  int num1, num2, res, rem;
  public int getNum1() {
     return num1;
  }
  public void setNum1(int num1) {
     this.num1 = num1;
  }
  public int getNum2() {
     return num2;
  }
  public void setNum2(int num2) {
     this.num2 = num2;
  }
  public int getRes() {
     return res;
  }
  int add() {
     res = num1 + num2;
    return res;
  }
  int subtract() {
     res = num1 - num2;
    return res;
  }
  int prod() {
    res = num1 * num2;
    return res;
  }
  int divide() {
     res = num1 / num2;
     rem = num1 % num2;
     return res;
```

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}
  public int getrem() {
     return rem;
  }
}
// Calculator Test Class
import org.junit.Test;
import static org.junit.Assert.assertEquals;
public class CalculatorTest {
  int result;
  Calculator c = new Calculator();
  @Test
  public void testadd() {
     c.setNum1(50);
     c.setNum2(5);
     result = c.add();
     assertEquals(55, result);
  }
  @Test
  public void testsub() {
     c.setNum1(50);
     c.setNum2(5);
     result = c.subtract();
     assertEquals(45, result);
  }
  @Test
  public void testmultiply() {
     c.setNum1(50);
     c.setNum2(5);
     result = c.prod();
     assertEquals(250, result);
  }
  @Test
  public void testdiv() {
     c.setNum1(50);
```

```
c.setNum2(5);
     result = c.divide();
     double remainder = c.getrem();
     assertEquals(10, result);
     assertEquals(0, remainder, 0.0);
  }
}
// Test Runner Class
import org.junit.runner.JUnitCore;
import org.junit.runner.Result;
import org.junit.runner.notification.Failure;
public class TestRunner {
  public static void main(String[] agrs) {
     Result result = JUnitCore.runClasses(CalculatorTest.class);
     for (Failure failure : result.getFailures()) {
       System.out.println(failure.toString());
     }
     System.out.println(result.wasSuccessful());
  }
}
```