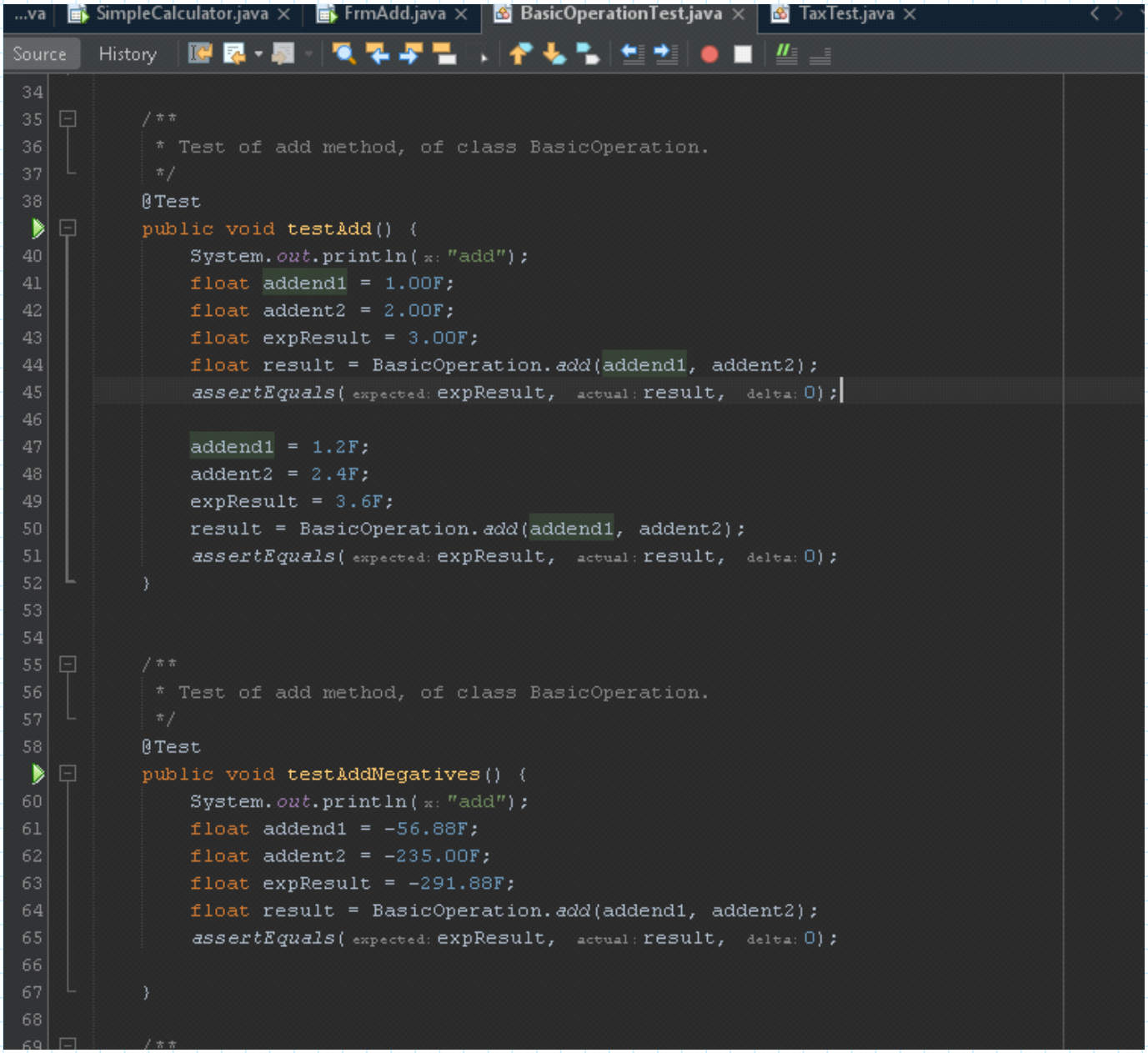
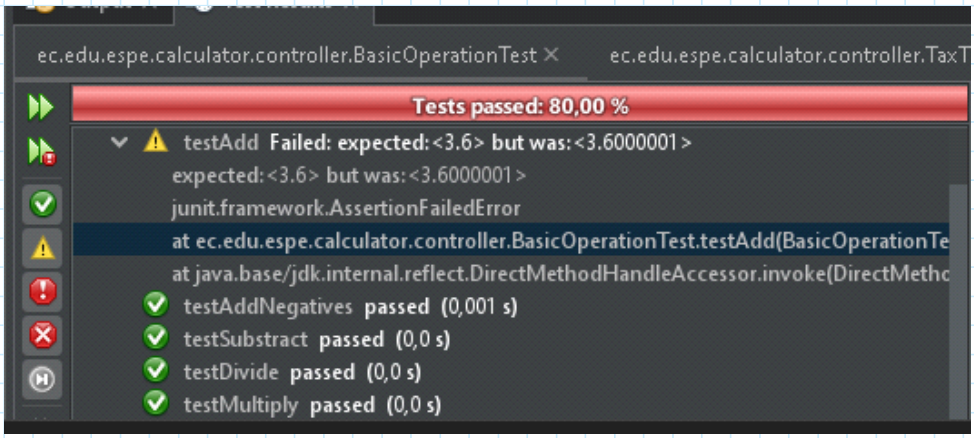
Ws40LibraryUnitTest

jueves, 2 de febrero de 2023 8:45

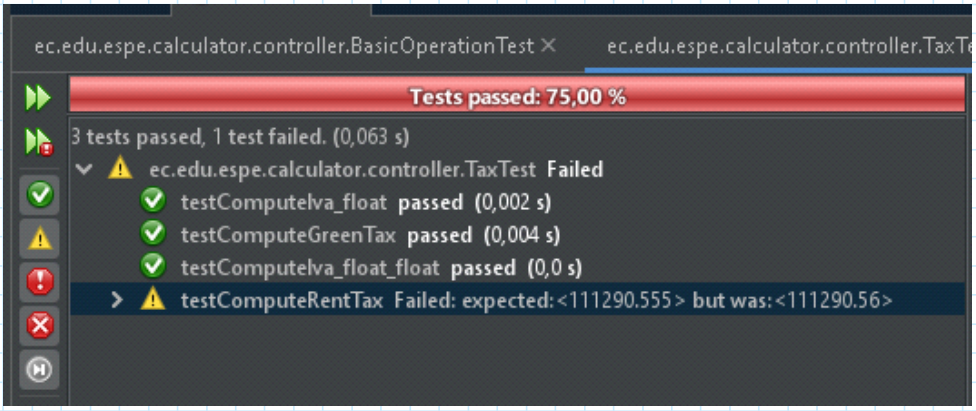
https://docs.google.com/document/d/1mtlkLSDB6cFbZ-VK1RVxagF2U12Pmyha/edit?usp=sharing&ouid=111686028395648835270&rtpof=true&sd=true

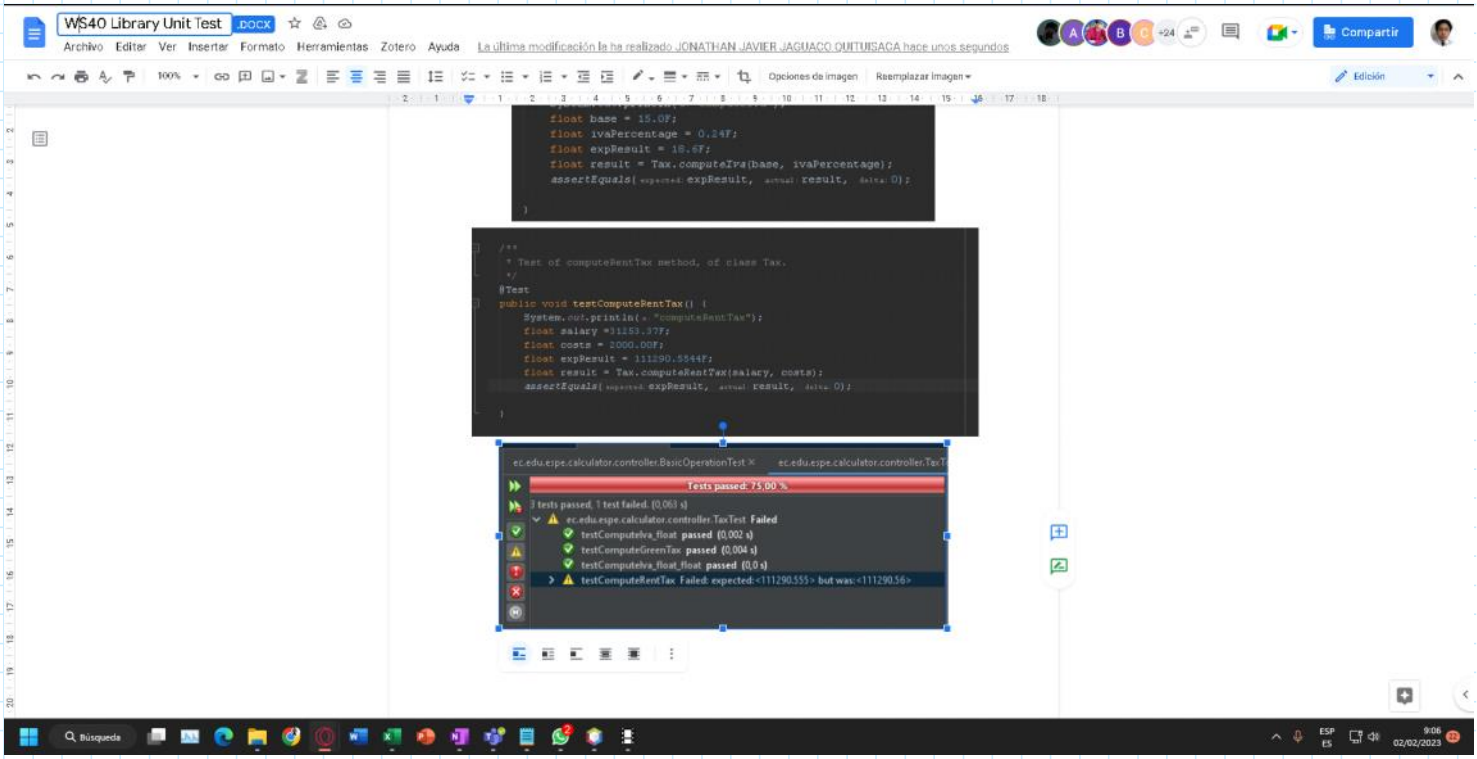




```java
@Test
public void testComputeIva_float_float() {
    System.out.println( x: "computeIva");
    float base = 15.0F;
    float ivaPercentage = 0.24F;
    float expResult = 18.6F;
    float result = Tax.computeIva(base, ivaPercentage);
    assertEquals( expected: expResult,  actual: result,  delta: 0);

}
```

```java
/**
 * Test of computeRentTax method, of class Tax.
 */
@Test
public void testComputeRentTax() {
    System.out.println( x: "computeRentTax");
    float salary =31253.37F;
    float costs = 2000.00F;
    float expResult = 111290.5544F;
    float result = Tax.computeRentTax(salary, costs);
    assertEquals( expected: expResult,  actual: result,  delta: 0);

}
```



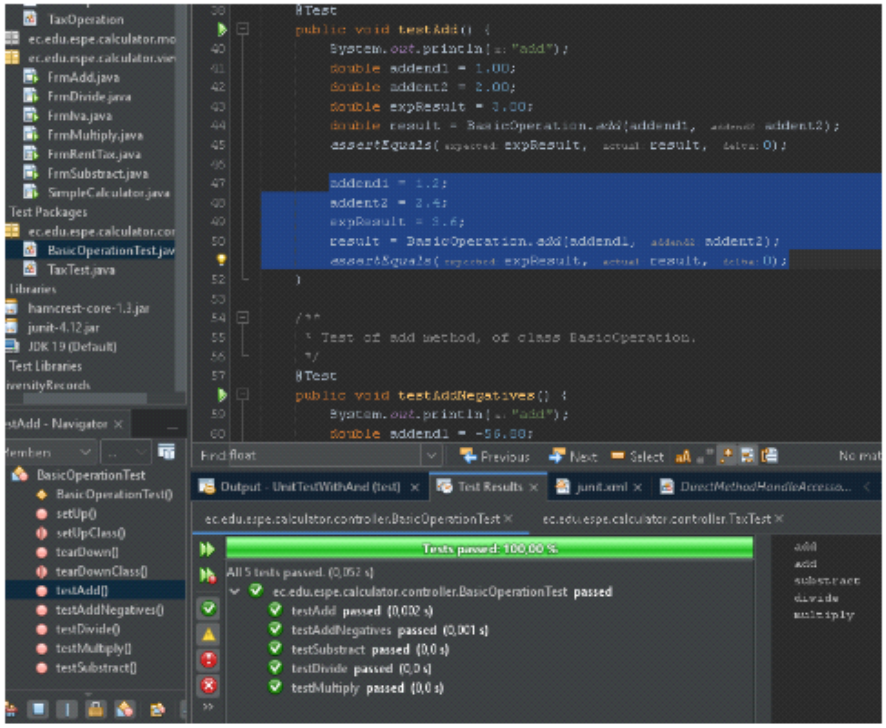


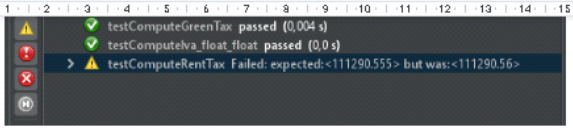
```
public class Tax {

    static final DecimalFormat df = new DecimalFormat( pattern: "#.00");

    /*public static float computeIva(float base, float ivaPercentage) {
        float iva;
        iva = base * ivaPercentage;
        return iva;
    }*/

    public static double computeIva(double base) {
        double iva = 0;
        iva = base * 0.12F;
        df.for(iva);
        return iva;
    }
```

```
public static double computeRentTax(float monthlySalary, float costs) {

    double value;
    double iessContribution = (monthlySalary * 0.0945F) * 12;
    value = (monthlySalary * 12) - iessContribution - costs;

    if (value <= 11310.00F) {
        value = value * 0;
    }
    if (value > 11310.00F && value <= 14410.00F) {
        value = (value - 11310.00F) * 0.05F;
    }
    if (value > 14410.00F && value <= 18010.00F) {
        value = ((value - 14410.00F) * 0.10F) + 155.00F;
    }
    if (value > 18010.00F && value <= 21630.00F) {
        value = ((value - 18010.00F) * 0.12F) + 515.00F;
    }
    if (value > 21630.00F && value <= 31630.00F) {
        value = ((value - 21630.00F) * 0.15F) + 949.40F;
    }
    if (value > 31630.00F && value <= 41650.00F) {
        value = ((value - 31630.00F) * 0.20F) + 2449.40F;
    }
    if (value > 41630.00F && value <= 51630.00F) {
        value = ((value - 41630.00F) * 0.25F) + 4449.40F;
    }
    if (value > 51630.00F && value <= 61630.00F) {
        value = ((value - 51630.00F) * 0.30F) + 6949.40F;
    }
    if (value > 61630.00F && value <= 100000.00F) {
        value = ((value - 51630.00F) * 0.35F) + 9949.40F;
    }
    if (value > 100000.00F) {
        value = ((value - 100000.00F) * 0.37F) + 23376.88F;
    }

    df.format( number: value);

    return value;
```

Calculator Tests Passed (Limiting and rounding to 4 decimal places with Math.round(). and using double)

```java
public class BasicOperation {

    public static double add(double addend1, double addend2) {
        double sum;
        sum = addend1 + addend2;
        sum = (double) Math.round(sum * 1000d) / 1000d;
        return sum;
    }
```





Taxes Tests Passed (Limiting and rounding to 4 decimal places with Math.round(). and using double)