Proves Unitàries. Sofia Gracia.

Enllaç al repositori de GitHub on es troba tot el codi:

Es demana:

1. Fer les funcions de proves unitàries per a suma, resta, multiplica, divideix i maiorQue.

```
| Calcumitian |
```

Fig. 1. Proves per a la funció suma.

```
alculadoraUnit.java × 🔓 Projects × 🕍 CalcUnit.java × 📓 CalcUnitTest.java ×
                                                                                    ∨ □ ☑ Terminal - localhost - /home/sofia/EDD/ProvesUni × I Test Results ×
History 🔯 🖫 - 🔼 🕏 😂 🖺 🖟 🌭 🗞 🔯 🥶 🕒 😃 🚅
                                                                                         Gradle Test Run :app:test started ×
     ^{\ast} Test of suma method, of class CalcUnit.
                                                                                         The test passed. (0,051 s)
                                                                                         0
     @Test
     public void testSuma() {
                                                                                         ()
          System.out.println("suma");
float op1 = 2.0F;
float op2 = 3.0F;
                                                                                          0
                                                                                          &
          float expResult = 5.0F;
float result = mycalc.su
                                 alc.suma(op1, op2);
          assertEquals(expResult, result);
                                                                                            suma
         * Test of resta method, of class CalcUnit.
```

Fig. 2. Proves per a la funció suma.

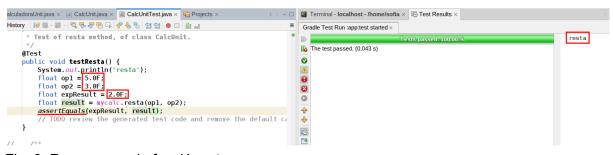


Fig. 3. Proves per a la funció resta.

```
CalculadoraUnit.java × 📓 CalcUnit.java × 📓 CalcUnitTest.java × 🔓 Projects ×
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \textbf{History} \quad | \; \boxed{\textcircled{4}} \; \; \boxed{\textcircled{3}} \; \cdot \; \boxed{\textcircled{3}} \; \cdot \; \boxed{\textcircled{4}} \; \cdot \; \boxed{\textcircled{4}} \; \boxed{\textcircled
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                                                                                              * Test of multiplica method, of class CalcUnit.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                          @Test
                                                                             public void testHultiplica() {
                                                                                                                                 float cond testmultiplica() {
System.out.println("multiplica");
float op1 = 3.0F;
float op2 = 2.0F;
float expResult = 6.0F;
float result = mycalc.multiplica(op1, op2);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
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                                                                                                                                     assertEquals(expResult, result, 0);
                                                                                                                                                                                                                                                                       review the generated test code and remove the default ca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ©
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```

Fig. 4. Proves per a la funció multiplica.

```
Gradie Test Run :app:test started ×
        System.out.println("multiplica");
         float op1 = 3.0F;
float op2 = 2.0F;
                                                                                                       The test passed. (0,053 s)
         float expResult = 6.0F;
                                                                                                       0
        float result = mycalc.multiplica(op1, op2);
assertEquals(expResult, result, 0);
         // TODO review the generated test code and remove the default
                                                                                                        8
                                                                                                        0
/**
| * Test of divideix method, of class CalcUnit.
                                                                                                        4
                                                                                                       *
@Test
                                                                                                       Po
public void testDivideix() {
     lic void testDavideix() {
System.out.println("divideix");
float op1 = 6.0F;
float op2 = 2.0F;
float expResult = 3.0F;
float result = mycalc.divideix(op1, op2);
     // TODO review the generated test code and remove the default ca
```

Fig. 5. Proves per a la funció divideix.

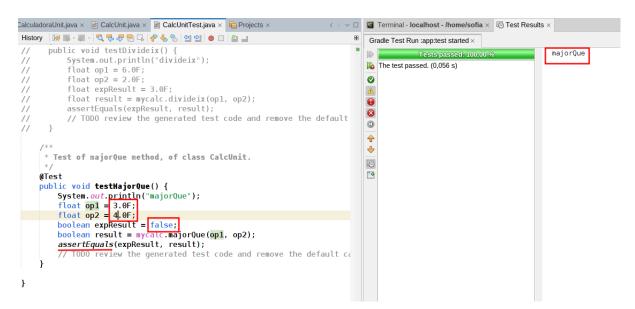


Fig. 6. Proves per a la funció MajorQue.

2. Utilitzar el mètode @Before per a no crear en cada cas de prova el objecte de la classe.

```
public class CalcUnitTest {
    CalcUnit mycalc;
    public CalcUnitTest() {
    }

    @BeforeAll
    public static void setUpClass() {
    }

    @AfterAll
    public static void tearDownClass() {
    }

    @BeforeEach
    public void setUp() {
        mycalc = new CalcUnit();
    }
}
```

Fig. 7.

3. Utilitzar el mètode @after per a invocar al mètode «restablecer» de la classe Calculadora.

```
QAfterEach
public void tearDown() {
    mycalc.restablecer();
}
```

Fig. 8

4. Comentar utilitzant la sintaxis de JavaDoc la classe Calculadora.

```
Output - Build (ProvesUni:app) ×

JAVA_HOME="/home/sofia/NetBeansJDKs/zulu17.48.15-ca-jdk17.0.10-linux_x64/zulu17.48.15-ca-jdk17.0.10-linux_x64"

cd /home/sofia/EDD/ProvesUni/app; ../gradlew --configure-on-demand -x check javadoc
Configuration on demand is an incubating feature.

> Task :app:compileJava_UP-TO-DATE

> Task :app:classes_UP-TO-DATE

> Task :app:javadoc_UP-TO-DATE

BUILD_SUCCESSFUL_in_183ms
2 actionable tasks: 2 up-to-date
```

Fig. 9.



Fig. 10.

- 5. Entregar:
- 1. Captura de les funcions comentades.
- 2. Captura de la classe de proves. Exem CalculadoraTest.java
- 3. Captura de la execució del test de JUnit.