

UNIVERSIDAD NACIONAL DE SAN AGUSTIN
FACULTAD DE PRODUCCION Y SERVICIOS
ESCUELA PROFESIONAL DE CIENCIA DE LA COMPUTACION



PRACTICA 5: Pruebas Funcionales y xUnit

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Curso: Ingenieria de Software 2

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Grupo: A

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PRUEBAS FUNCIONALES Y XUNIT

**Dependencias Necesarias*

pom.xml

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-  
instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0  
https://maven.apache.org/xsd/maven-4.0.0.xsd">  
  <modelVersion>4.0.0</modelVersion>  
  <groupId>lab5</groupId>  
  <artifactId>lab5-ex</artifactId>  
  <version>0.0.1-SNAPSHOT</version>  
  <name>Lab5</name>  
  <dependencies>  
    <dependency>  
      <groupId>com.amazonaws</groupId>  
      <artifactId>aws-lambda-java-core</artifactId>  
      <version>1.2.1</version>  
    </dependency>  
    <dependency>  
      <groupId>org.seleniumhq.selenium</groupId>  
      <artifactId>selenium-java</artifactId>  
      <version>4.6.0</version>  
    </dependency>  
    <dependency>  
      <groupId>junit</groupId>  
      <artifactId>junit</artifactId>  
      <version>4.13.2</version>  
    </dependency>  
  </dependencies>  
</project>
```

**Prueba Calculator*

```
public class Lab5 {
    @Test
    public static void main(String[] args) {
        //Set up web driver [chrome, firefox,...]
        //System.setProperty("webdriver.gecko.driver", "C:\\...\\Selenium\\Selenium
WebDriver\\Java\\Libs\\geckodriver-v0.23.0-win32\\geckodriver.exe");

        WebDriver driver = new ChromeDriver();
        //Puts an Implicit wait, Will wait for 10 seconds before throwing exception
        driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);

        //Launch website
        driver.navigate().to("http://www.calculator.net/");

        //Maximize the browser
        driver.manage().window().maximize();

        // Click on Math Calculators
        driver.findElement(By.xpath("//*[@id=\"contentout\"]/table/tbody/tr/td[3]/div[2]/a")).click();

        // Click on Percent Calculators
        driver.findElement(By.xpath("//*[@id=\"occontent\"]/a[3]")).click();

        // Enter value 10 in the first number of the percent Calculator
        driver.findElement(By.id("cpar1")).sendKeys("10");

        // Enter value 50 in the second number of the percent Calculator
        driver.findElement(By.id("cpar2")).sendKeys("50");

        // Click Calculate Button
        driver.findElement(By.xpath("//*[@id=\"content\"]/table[1]/tbody/tr[2]/td/input[2]")).click();

        // Get the Result Text based on its xpath
        String result =
            driver.findElement(By.xpath("//*[@id=\"cpar3\"]")).getText();

        // Print a Log In message to the screen
        System.out.println(" The Result is " + result);

        //Close the Browser.
        driver.close();
    }
}
```

Página usada

The screenshot shows the Calculator.net website with the URL <https://www.calculator.net/percent-calculator.html>. The page has a dark blue header with the site logo and navigation links: FINANCIAL, FITNESS & HEALTH, MATH (highlighted), and OTHER. Below the header, the breadcrumb path is 'home / math / percentage calculator'. The main heading is 'Percentage Calculator' with a subtext: 'Please provide any two values below and click the "Calculate" button to get the third value.' There are three input fields: '% of', 'of', and '=', with 'Calculate' and 'Clear' buttons below. Below this is a section 'Percentage Calculator in Common Phrases' with three rows of input fields and 'Calculate' buttons: 'what is % of', '% is what % of', and '% is % of what'. At the bottom left is a 'Percentage Difference Calculator' with a 'Value 1' input field. On the right side, there is a Chegg advertisement for 'Own this semester' with a 'Subscribe' button. Below the ad is a search bar and a 'Math Calculators' section with links to Scientific, Fraction, Percentage, Triangle, Volume, Standard Deviation, Random Number Generator, and More Math Calculators. The footer of the math section includes links for Financial, Fitness and Health, Math, and Other. The Windows taskbar at the bottom shows the search bar, task view, and various application icons, along with system information: 20°C, Ensolarado, 10:46, 13/11/2022.

*Prueba Web Form

```
public class Prueba {  
    @Test  
    public void eightComponents() {  
        WebDriverManager.chromedriver().setup();  
        WebDriver driver = new ChromeDriver();  
        driver.get("https://www.selenium.dev/selenium/web/web-form.html");  
  
        String title = driver.getTitle();  
        assertEquals("Web form", title);  
  
        driver.manage().timeouts().implicitlyWait(Duration.ofMillis(500));  
  
        WebElement textBox = driver.findElement(By.name("my-text"));  
        WebElement submitButton = driver.findElement(By.cssSelector("button"));  
  
        textBox.sendKeys("Selenium");  
        submitButton.click();  
  
        WebElement message = driver.findElement(By.id("message"));  
        String value = message.getText();  
        assertEquals("Received!", value);  
  
        driver.quit();  
    }  
}
```

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