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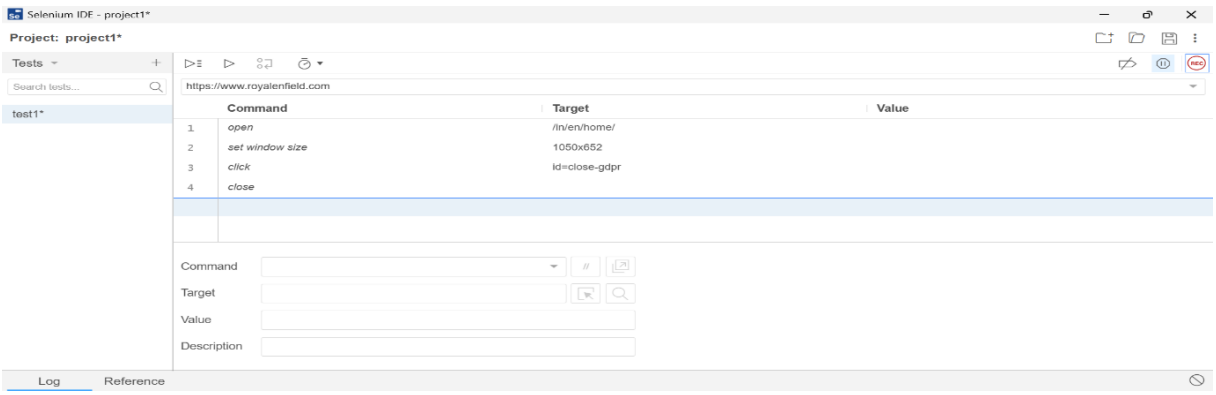
Div :- B

Sub :- Lab On Software Testing

1. **Using Selenium IDE, write a test suite containing minimum 4 test cases.**



2. **Using Selenium IDE and Eclipse, write a test case for given website [Website:- https://ghrcemj.raisoni.net]**

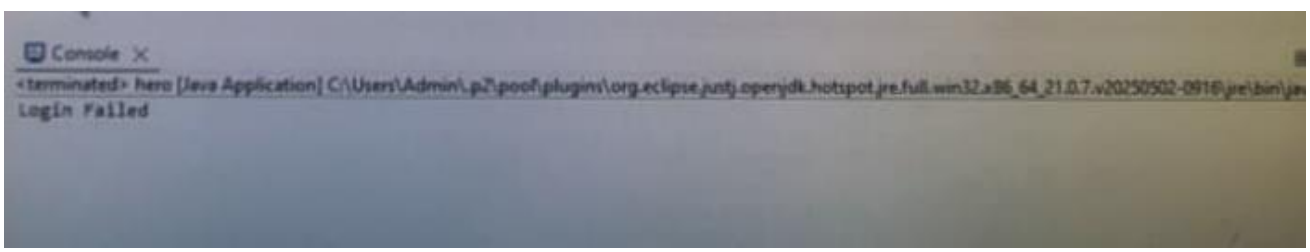
```
public class Lab_No_2 {
    public static void main(String[] args) {
        // Set the path to chromedriver.exe
        System.setProperty("webdriver.chrome.driver", "D:\\chromedriver.exe");

        // Initialize WebDriver
        WebDriver driver = new ChromeDriver();

        // Step 1: Open the Website
        driver.get("https://ghribmjal.raisoni.net");

        // Step 2: Maximize the browser window
        driver.manage().window().maximize();

        // Step 3: Click on 'About Us'
        WebElement aboutUs = driver.findElement(By.linkText("About Us"));
        aboutUs.click();

        // Step 4: Click on 'Vision & Mission'
        WebElement visionMission = driver.findElement(By.linkText("Vision & Mission"));
        visionMission.click();

        // Step 5: Validate that "Vision & Mission" page is loaded
        WebElement heading = driver.findElement(By.tagName("h2"));
        String headingText = heading.getText();

        if (headingText.contains("Vision & Mission")) {
            System.out.println("Test Passed: Page loaded successfully.");
        } else {
            System.out.println("Test Failed: Expected heading not found.");
        }


        // Close the browser

     driver.quit();
    }

}
```

```
Starting ChromeDriver 131.0.6778.108 ...
ChromeDriver was started successfully.
Test Passed: Page loaded successfully.
```

3. **Using Selenium IDE and Eclipse, write a test case for given website [Gmail & Facebook]**

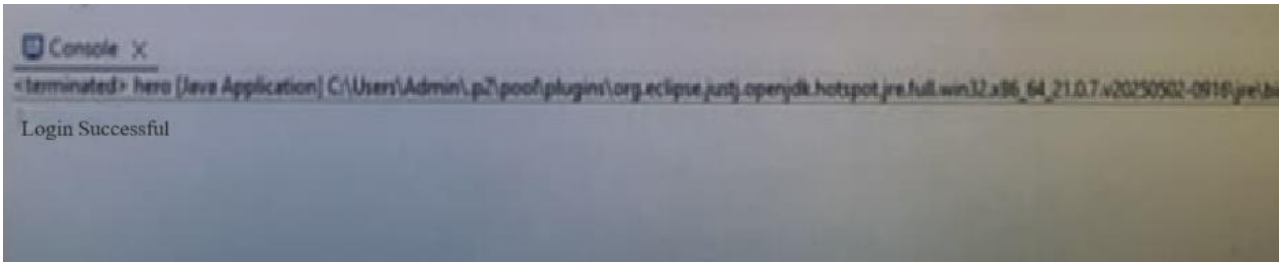
Facebook :

```
public class Gmail_Facebook {

    public static void main(String[] args)
   throws InterruptedException {

      System.setProperty("webdriver.chrome.driver", "D:\\chromedriver.exe");
      WebDriver driver=new ChromeDriver();


      driver.get("https://www.facebook.com/login/?next=https%3A%2F%2Fwww.facebook.com%
2F");
      driver.findElement(By.id("email")).sendKeys("");
      driver.findElement(By.id("pass")).sendKeys("");
            driver.findElement(By.name("login")).click();
            Thread.sleep(2000);
            String title=driver.getTitle();
            if (title.contains("Log in"))
            {

                  System.out.println("Login Failed");

            }
            else
            {
                  System.out.println("Login Successful");

            }
      }
```



Gmail :

```
public class Gmail {

    public static void main(String[] args)
    throws InterruptedException {
            // TODO Auto-generated method stub
            System.setProperty("webdriver.chrome.driver", "D:\\chromedriver.exe");
            WebDriver driver=new ChromeDriver();

    driver.get("https://accounts.google.com/v3/signin/identifier?service=mail&ddm=0&flowNam
e= Gli
fWebSignIn&flowEntry=AccountChooser&continue=https%3A%2F%2Fmail.google.com%2Fm
ai l");
            driver.findElement(By.id("email")).sendKeys("");
            driver.findElement(By.id("pass")).sendKeys("");
            driver.findElement(By.name("login")).click();
            Thread.sleep(5000);
            String title=driver.getTitle();
            if (title.contains("Log in"))

            {

                    System.out.println("Login Successful");
            }
            else
            {
                    System.out.println("Login Failed");
            }
    }
```



4. Using Selenium IDE and Eclipse, write a test case using Name, Password & Age in Selenium Server.

```
public class FormTest {
   public static void main(String[] args) {
      // Set ChromeDriver path
      System.setProperty("webdriver.chrome.driver", "C:\\path\\to\\chromedriver.exe");

      // Launch browser
      WebDriver driver = new ChromeDriver();

      try {
         // Step 1: Open form page
         driver.get("https://example.com/form");
         driver.manage().window().maximize();

         // Step 2: Enter Name
         WebElement nameField = driver.findElement(By.name("username"));
         nameField.sendKeys("Raj Sonawane");

         // Step 3: Enter Password
         WebElement passwordField = driver.findElement(By.name("password"));
         passwordField.sendKeys("Password123");

         // Step 4: Enter Age
         WebElement ageField = driver.findElement(By.name("age"));
         ageField.sendKeys("20");

         // Step 5: Click Submit button
         driver.findElement(By.name("submit")).click();

         // Step 6: Verify success message
         String successMsg = driver.findElement(By.id("success")).getText();
         if (successMsg.contains("Form submitted successfully")) {
            System.out.println("Test Passed: Form submitted successfully");
         } else {
                        System.out.println("Test Failed: Message not found");
         }


      } catch (Exception e) {
         e.printStackTrace();
      } finally {
         // Close browser
         driver.quit();
      }

   }

}
```

Name: Raj Sonawane

Age: 20

Password: ••••••••••

Submit

5. **Generate the test case using selenium IDE to check the program written for addition, subtraction, multiplication & division of two numbers.**

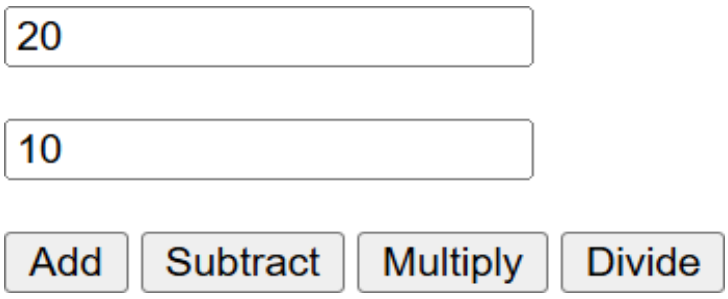
- **HTML**

```
<input id="num1" type="text"><br>
<input id="num2" type="text"><br>
<button id="add">Add</button>
<button id="sub">Subtract</button>
<button id="mul">Multiply</button>
<button id="div">Divide</button>
<span id="result"></span>
```

- **JAVA**

```
public class CalculatorTest {
    public static void main(String[] args) {
        // Set ChromeDriver path (update this path to your system)
        System.setProperty("webdriver.chrome.driver", "C:\\path\\to\\chromedriver.exe");

        // Launch Chrome browser
        WebDriver driver = new ChromeDriver();

        try {
            // Open calculator webpage
            driver.get("http://localhost:8080/calculator.html");
            driver.manage().window().maximize();

            // Enter numbers
            WebElement num1 = driver.findElement(By.id("num1"));
            WebElement num2 = driver.findElement(By.id("num2"));

            num1.clear();
            num1.sendKeys("20");
            num2.clear();
            num2.sendKeys("10");


              // ---- Addition Test ----
            driver.findElement(By.id("add")).click();
            String result = driver.findElement(By.id("result")).getText();
            if (result.equals("30")) {
                System.out.println("Addition Passed");
            } else {
                System.out.println("Addition Failed, got: " + result);
            }


            // ---- Subtraction Test ----
            driver.findElement(By.id("sub")).click();
            result = driver.findElement(By.id("result")).getText();
            if (result.equals("10")) {
                System.out.println("Subtraction Passed");
            } else {
```

```
            System.out.println("Subtraction Failed, got: " + result);
        }

        // ---- Multiplication Test ----
        driver.findElement(By.id("mul")).click();
        result = driver.findElement(By.id("result")).getText();
        if (result.equals("200")) {
            System.out.println("Multiplication Passed");
        } else {
            System.out.println("Multiplication Failed, got: " + result);
        }

        // ---- Division Test ----
        driver.findElement(By.id("div")).click();
        result = driver.findElement(By.id("result")).getText();
        if (result.equals("2")) {
            System.out.println("Division Passed");
        } else {
            System.out.println("Division Failed, got: " + result);
        }

    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        // Close browser
        driver.quit();
    }

  }

}
```



6. **Generate the test case using selenium IDE to check the program written for to check number is Odd or Even.**

- **HTML**

```
<input id="number" type="text" placeholder= "Enter a number" >
<button id="checkBtn">Check</button>
<span id="result"></span>
```

- **JAVA**

```
public class OddEvenTest {
    public static void main(String[] args) {
        // Set ChromeDriver path (update this to your system path)
        System.setProperty("webdriver.chrome.driver", "C:\\path\\to\\chromedriver.exe");
        // Launch browser
        WebDriver driver = new ChromeDriver();
        try {
            // Open Odd/Even program webpage
            driver.get("http://localhost:8080/odd-even.html");
            driver.manage().window().maximize();
            // -------- Test with Even Number (10) --------
            WebElement inputBox = driver.findElement(By.id("number"));
            inputBox.clear();
            inputBox.sendKeys("10");

            driver.findElement(By.id("checkBtn")).click();

            String result = driver.findElement(By.id("result")).getText();
            if (result.equals("10 is Even")) {
                System.out.println("Even Number Test Passed");
            } else {
                System.out.println("Even Number Test Failed, got: " + result);
            }

            // -------- Test with Odd Number (7) --------
            inputBox.clear();
            inputBox.sendKeys("7");

            driver.findElement(By.id("checkBtn")).click();

            result = driver.findElement(By.id("result")).getText();
            if (result.equals("7 is Odd")) {
                System.out.println("Odd Number Test Passed");
            } else {
                System.out.println("Odd Number Test Failed, got: " + result);
            }

        } catch (Exception e) {
            e.printStackTrace();
        } finally {
            // Close the browser
            driver.quit();
        } }  }
```

7. **Generate the test case using selenium IDE to check the program written for to check number is Prime or Not.**

- **HTML**

```
<input id="number" type="text" placeholder= "Enter a number" >
<button id="checkBtn">Check</button>
<span id="result"></span>
```

- **JAVA**

```
public class PrimeNumberTest {
    public static void main(String[] args) {
        // Set ChromeDriver path (update this path for your system)
        System.setProperty("webdriver.chrome.driver", "C:\\path\\to\\chromedriver.exe");

        // Launch browser
        WebDriver driver = new ChromeDriver();

        try {
            // Open Prime Number program webpage
            driver.get("http://localhost:8080/prime.html");
            driver.manage().window().maximize();

            // -------- Test with Prime Number (7) --------
            WebElement inputBox = driver.findElement(By.id("number"));
            inputBox.clear();
            inputBox.sendKeys("7");

            driver.findElement(By.id("checkBtn")).click();

            String result = driver.findElement(By.id("result")).getText();
            if (result.equals("7 is Prime")) {
                System.out.println("Prime Number Test Passed (7)");
            } else {
                System.out.println("Prime Number Test Failed, got: " + result);
            }

            // -------- Test with Non-Prime Number (10) --------
            inputBox.clear();
            inputBox.sendKeys("10");

            driver.findElement(By.id("checkBtn")).click();

            result = driver.findElement(By.id("result")).getText();
            if (result.equals("10 is Not Prime")) {
                System.out.println("Non-Prime Number Test Passed (10)");
            } else {
                System.out.println("Non-Prime Number Test Failed, got: " + result);
            }

        } catch (Exception e) {
            e.printStackTrace();
        } finally {
            // Close browser
            driver.quit();
        } } }
```

8. **Generate the test case using selenium IDE to check the program written for addition and subtraction of three number.**

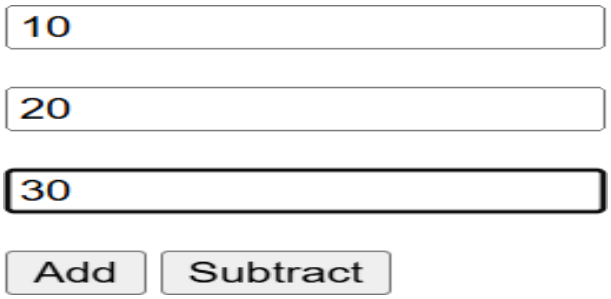
HTML

```
<input id="num1" type="text"><br><br>
<input id="num2" type="text"><br><br>
<input id="num3" type="text"><br><br>
<button id="add">Add</button>
<button id="sub">Subtract</button>
<span id="result"></span>
```

JAVA

```
public class ThreeNumberCalcTest {
   public static void main(String[] args) {
      // Set ChromeDriver path (update with your path)
      System.setProperty("webdriver.chrome.driver", "C:\\path\\to\\chromedriver.exe");

      // Launch browser
      WebDriver driver = new ChromeDriver();

      try {
         // Open calculator program webpage
         driver.get("http://localhost:8080/threeNumbers.html");
         driver.manage().window().maximize();

         // Locate input fields
         WebElement num1 = driver.findElement(By.id("num1"));
         WebElement num2 = driver.findElement(By.id("num2"));
         WebElement num3 = driver.findElement(By.id("num3"));

         // -------- Test Addition: 10 + 20 + 30 = 60 --------
         num1.clear();
         num1.sendKeys("10");
         num2.clear();
         num2.sendKeys("20");
         num3.clear();
         num3.sendKeys("30");

         driver.findElement(By.id("add")).click();

         String result = driver.findElement(By.id("result")).getText();
         if (result.equals("60")) {
            System.out.println("Addition Test Passed (10+20+30=60)");
         } else {
            System.out.println("Addition Test Failed, got: " + result);
         }


         // -------- Test Subtraction: 50 - 20 - 10 = 20 --------
         num1.clear();
         num1.sendKeys("50");
         num2.clear();
```

```
            num2.sendKeys("20");
            num3.clear();
            num3.sendKeys("10");

            driver.findElement(By.id("sub")).click();

            result = driver.findElement(By.id("result")).getText();
            if (result.equals("20")) {
                System.out.println("Subtraction Test Passed (50-20-10=20)");
            } else {
                System.out.println("Subtraction Test Failed, got: " + result);
            }


        } catch (Exception e) {
            e.printStackTrace();
        } finally {
            // Close browser
            driver.quit();
        }

    }

}
```



9. Generate the test case using selenium IDE to check the program written for multiplication and division of three number.

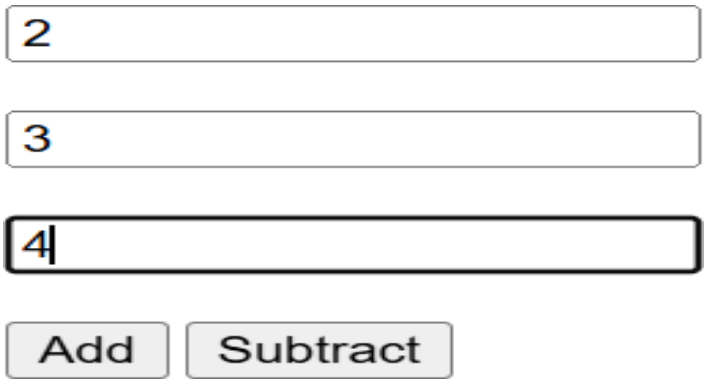
HTML

```
<input id="num1" type="text"><br><br>
<input id="num2" type="text"><br><br>
<input id="num3" type="text"><br><br>
<button id="add">Add</button>
<button id="sub">Subtract</button>
<span id="result"></span>
```

JAVA

```
public class ThreeNumberMulDivTest {
   public static void main(String[] args) {
      // Set ChromeDriver path (update to your system's path)
      System.setProperty("webdriver.chrome.driver", "C:\\path\\to\\chromedriver.exe");

      // Launch browser
      WebDriver driver = new ChromeDriver();

      try {
         // Open the calculator program
         driver.get("http://localhost:8080/threeNumbersCalc.html");
         driver.manage().window().maximize();
         // Locate input fields
         WebElement num1 = driver.findElement(By.id("num1"));
         WebElement num2 = driver.findElement(By.id("num2"));
         WebElement num3 = driver.findElement(By.id("num3"));

         // -------- Test Multiplication: 2 * 3 * 4 = 24 --------
         num1.clear();
         num1.sendKeys("2");
         num2.clear();
         num2.sendKeys("3");
         num3.clear();
         num3.sendKeys("4");

         driver.findElement(By.id("mul")).click();

         String result = driver.findElement(By.id("result")).getText();
         if (result.equals("24")) {
            System.out.println("Multiplication Test Passed (2*3*4=24)");
         } else {
            System.out.println("Multiplication Test Failed, got: " + result);
         }


         // -------- Test Division: 100 / 5 / 2 = 10 --------
         num1.clear();
         num1.sendKeys("100");
```

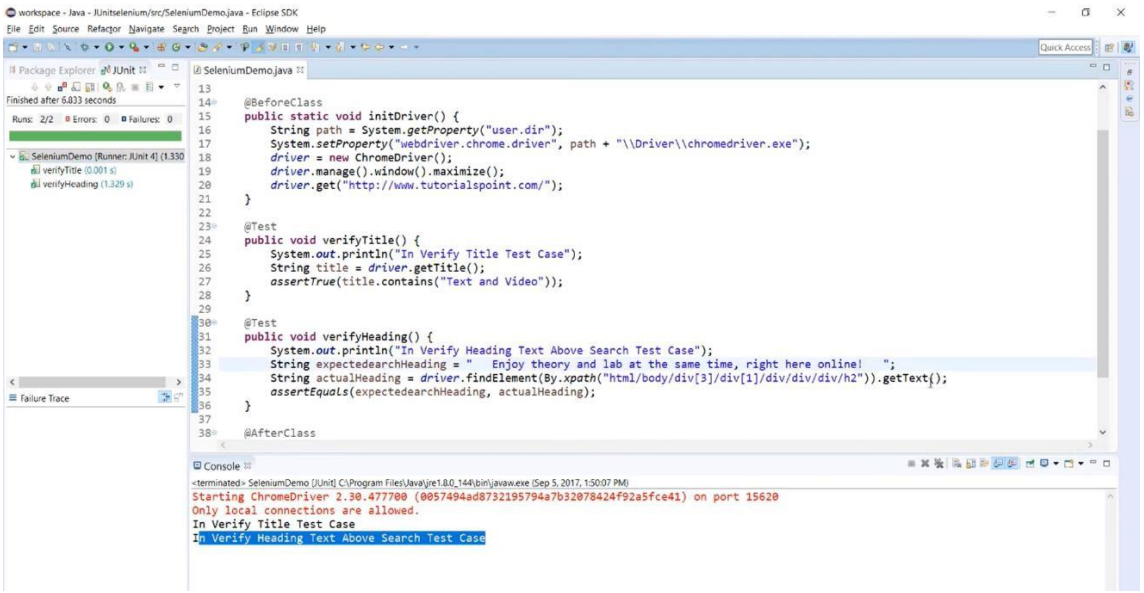
```
            num2.clear();
            num2.sendKeys("5");

            num3.clear();
            num3.sendKeys("2");

            driver.findElement(By.id("div")).click();

            result = driver.findElement(By.id("result")).getText();
            if (result.equals("10")) {
                System.out.println("Division Test Passed (100/5/2=10)");
            } else {
                System.out.println("Division Test Failed, got: " + result);
            }


        } catch (Exception e) {
            e.printStackTrace();
        } finally {
            // Close browser
            driver.quit();
        }

    }

}
```



10. Using Selenium IDE and Eclipse demonstrate Unit Testing with Junit.

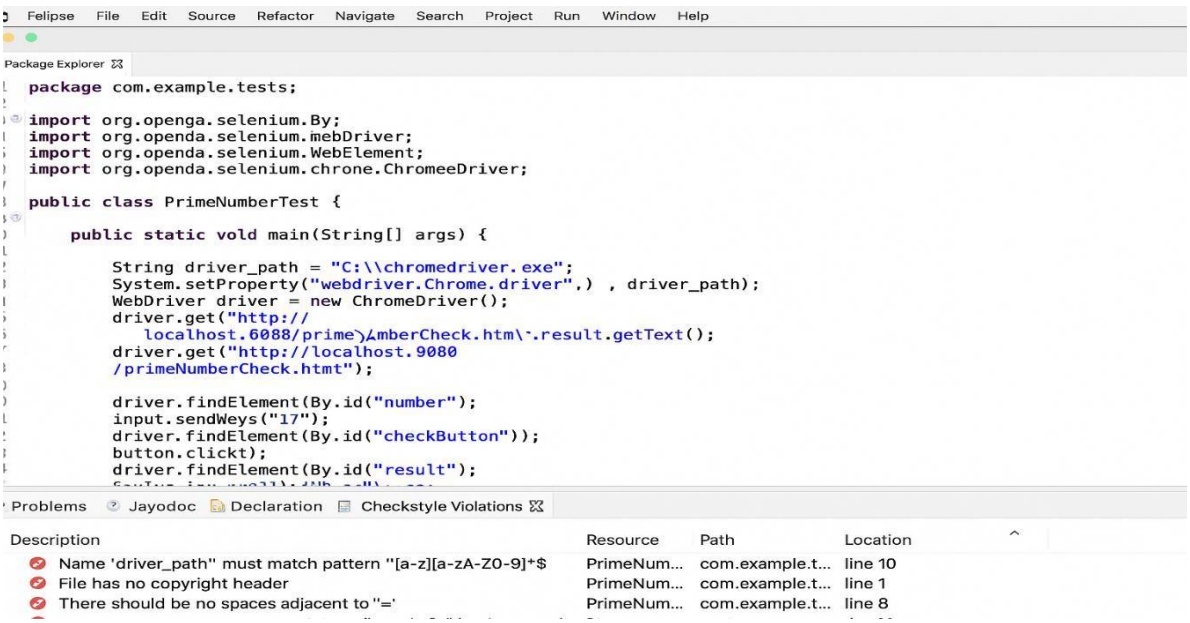
```
public class SeleniumDemo {

   // Declare the WebDriver instance as static so it can be used in @BeforeClass and
@AfterClass
   public static WebDriver driver;

   @BeforeClass
   public static void initDriver() {
      // NOTE: You must change this path to the actual location of your chromedriver.exe
      String path = System.getProperty("user.dir") + "\\Driver\\chromedriver.exe";

      // Setting the path to the ChromeDriver executable
      System.setProperty("webdriver.chrome.driver", path);

      // Initialize the ChromeDriver
      driver = new ChromeDriver();

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

      // Navigate to the target URL
      driver.get("http://www.tutorialspoint.com/");
   }


   //-------------------------------------------------------


   @Test
   public void verifyTitle() {
      System.out.println("In Verify Title Test Case");

      // Get the page title
      String title = driver.getTitle();

      // Assert that the title contains the text "Test and Video"
      // This is the assertion shown in the screenshot
      assertTrue(title.contains("Test and Video"));
   }


   //-------------------------------------------------------
```

```
    @Test
    public void verifyHeading() {
        System.out.println("In Verifying Heading Test Above Search Test Case");

        // The expected text for the heading element
        String expectedSearchHeading = "Enjoy theory and lab at the same time, right here online!
";


        // Find the element by XPath and get its text
        // NOTE: The XPath is highly specific and likely needs adjustment for current website
content
        String actualHeading =
driver.findElement(By.xpath("/html/body/div[3]/div[1]/div/div[2]/h2")).getText();

        // Assert that the actual text matches the expected text
        // This is the assertion shown in the screenshot
        assertEquals(expectedSearchHeading, actualHeading);
    }


    //-------------------------------------------------------


    @AfterClass
    public static void tearDown() {
        // Quit the driver and close all associated windows after all tests are done
        if (driver != null) {
            driver.quit();
        }

    }

}
```



11. Using Selenium IDE and Eclipse perform Static Code Analysis Using Check style.

```
public class PrimeNumberTest {
   public static void main(String[] args) {
      // WebDriver path not following naming conventions (violation)
      String driver_path="C:\\chromedriver.exe";

      // Missing comments/Javadoc (violation)
      System.setProperty("webdriver.chrome.driver", driver_path);
      WebDriver driver=new ChromeDriver();
      driver.get("http://localhost:8080/primeNumberCheck.html");

      WebElement input=driver.findElement(By.id("number"));
      input.sendKeys("17");  // No space around operators (violation)

      WebElement button=driver.findElement(By.id("checkButton"));
      button.click();

      WebElement result=driver.findElement(By.id("result"));
      System.out.println("Result:"+result.getText()); // concatenation spacing issue (violation)

      driver.quit();
   }

}
```



12. Using Selenium IDE and Eclipse perform Black Box Testing (Create an Login module)

HTML

```
<!DOCTYPE html>
<html>
<head>
<title>Login Page</title>
</head>
<body>
  <h2>Login Module</h2>
  <form id="loginForm">
    <label>Username:</label>
    <input type="text" id="username"><br><br>
    <label>Password:</label>
    <input type="password" id="password"><br><br>
    <button type="button" id="loginButton">Login</button>
  </form>
  <p id="message"></p>

  <script>
    document.getElementById("loginButton").onclick = function() {
      var user = document.getElementById("username").value;
      var pass = document.getElementById("password").value;
      if(user === "admin" && pass === "12345"){
        document.getElementById("message").innerText = "Login Successful!";
      } else {
        document.getElementById("message").innerText = "Invalid Credentials!";
      }

    };

  </script>
</body>
</html>
```

Java

```
public class LoginTest {
    public static void main(String[] args) {
        System.setProperty("webdriver.chrome.driver", "C:\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();

        driver.get("http://localhost:8080/login.html");

        //  Test Case 1: Valid Login
        driver.findElement(By.id("username")).sendKeys("admin");
        driver.findElement(By.id("password")).sendKeys("12345");
```

```
        driver.findElement(By.id("loginButton")).click();



        WebElement message = driver.findElement(By.id("message"));
        System.out.println("Valid Login Test Result: " + message.getText());

        //  Test Case 2: Invalid Login
        driver.navigate().refresh();  // reset form
        driver.findElement(By.id("username")).sendKeys("wrong");
        driver.findElement(By.id("password")).sendKeys("0000");
        driver.findElement(By.id("loginButton")).click();
        WebElement message2 = driver.findElement(By.id("message"));
        System.out.println("Invalid Login Test Result: " + message2.getText());

        driver.quit();
    }

}
```

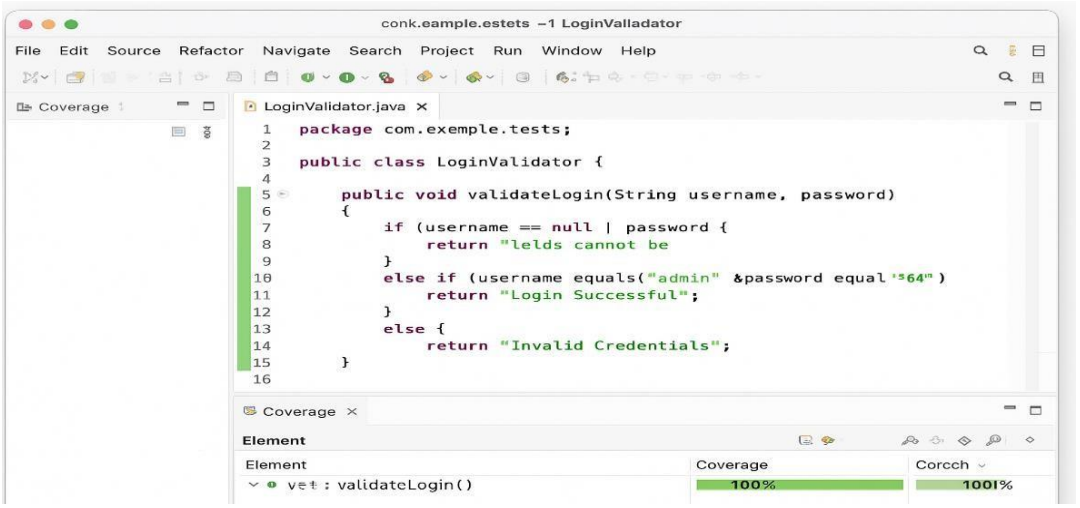
13. Using Selenium IDE and Eclipse perform White Box Testing Branch coverage.

Login Validation

```
public class LoginValidator {
    public String validateLogin(String username, String password) {
        if (username == null || password == null) {
            return "Fields cannot be empty";
        } else if (username.equals("admin") && password.equals("12345")) {
            return "Login Successful";
        } else {
            return "Invalid Credentials";
        }

    }

}
```

All Branches

```
public class LoginValidatorTest {

    @Test
    public void testNullValues() {
        LoginValidator lv = new LoginValidator();
        assertEquals("Fields cannot be empty", lv.validateLogin(null, null));
    }


    @Test
    public void testValidLogin() {
        LoginValidator lv = new LoginValidator();
        assertEquals("Login Successful", lv.validateLogin("admin", "12345"));
    }


    @Test
    public void testInvalidLogin() {
        LoginValidator lv = new LoginValidator();
        assertEquals("Invalid Credentials", lv.validateLogin("wrong", "0000"));
    }

}
```


conk.eample.estets –1 LoginValladator
File Edit Source Refactor Navigate Search Project Run Window Help
Coverage
LoginValidator.java
1 package com.exemple.tests;
2
3 public class LoginValidator {
4
5 public void validateLogin(String username, password)
6 {
7 if (username == null | password {
8 return "lelds cannot be
9 }
10 else if (username equals("admin" &password equal '564")
11 return "Login Successful";
12 }
13 else {
14 return "Invalid Credentials";
15 }
16
Coverage
Element
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vet : validateLogin()
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14. Using Selenium IDE and Eclipse perform Security Testing Simulate SQL injection.

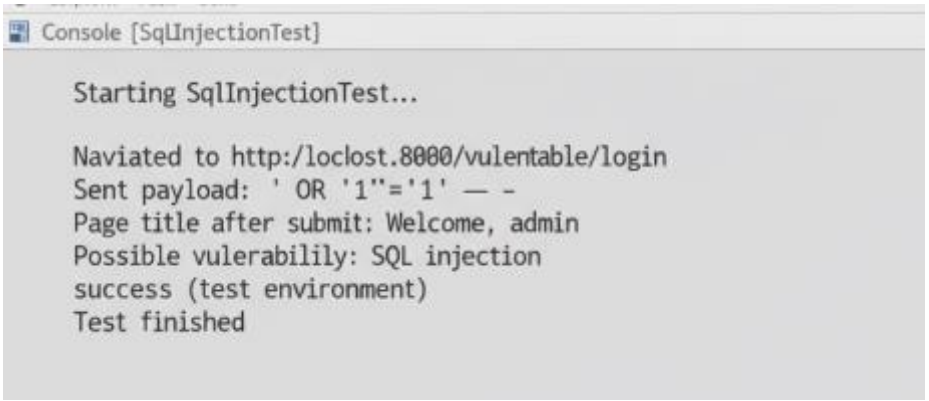
SQL

```
open    /vulnerable/login
waitForElementPresent    css=input[name="username"]    5000
type    css=input[name="username"]    ' OR '1'='1' --
type    css=input[name="password"]    randompassword
click  css=button[type="submit"]
waitForPageToLoad    5000
storeTitle    pageTitle
echo    Sent payload: ' OR '1'='1' --
echo    Page title after submit: ${pageTitle}
```

JAVA

```
public class SqlInjectionTest {
   public static void main(String[] args) {
      System.out.println("Starting SqlInjectionTest...");
      // Use WebDriverManager to auto-manage chromedriver
      WebDriverManager.chromedriver().setup();
      WebDriver driver = new ChromeDriver();

      try {
         String baseUrl = "http://localhost:8080/vulnerable/login"; // change to your test
target
         System.out.println("Navigated to " + baseUrl);
         driver.get(baseUrl);

         // Locate fields - adjust selectors to your page
         WebElement username = driver.findElement(By.name("username"));
         WebElement password = driver.findElement(By.name("password"));
         WebElement submit =
driver.findElement(By.cssSelector("button[type='submit']"));

         String payload = "' OR '1'='1' -- ";
         username.clear();
         username.sendKeys(payload);
         password.clear();
         password.sendKeys("irrelevant");
         System.out.println("Sent payload: " + payload);
         submit.click();

         // Wait a short moment for navigation/response
         Thread.sleep(3000);
```

```
            String title = driver.getTitle();


            System.out.println("Page title after submit: " + title);

            // Heuristic: if title contains "Welcome" or "Dashboard" it may indicate bypass
            if (title.toLowerCase().contains("welcome") ||
title.toLowerCase().contains("dashboard"))  {
                System.out.println("Possible vulnerability: SQL injection success (test
environment)");
            } else {
                System.out.println("No obvious success indicator in title. Manual inspection
recommended.");
            }

        } catch (Exception e) {
            e.printStackTrace();
        } finally {
            driver.quit();
            System.out.println("Test finished.");
        }

    }

}
```



15. Using Selenium IDE and Eclipse check performance Testing with JMH.

- **JHM**

```
<dependencies>
    <!-- Selenium -->
    <dependency>
        <groupId>org.seleniumhq.selenium</groupId>
        <artifactId>selenium-java</artifactId>
        <version>4.14.0</version>
    </dependency>

    <!-- WebDriverManager (optional, manages chromedriver) -->
    <dependency>
        <groupId>io.github.bonigarcia</groupId>
        <artifactId>webdrivermanager</artifactId>
        <version>5.5.0</version>
    </dependency>

    <!-- JMH core -->
    <dependency>
        <groupId>org.openjdk.jmh</groupId>
        <artifactId>jmh-core</artifactId>
        <version>1.38</version>
    </dependency>
    <!-- JMH annotation processor -->
    <dependency>
        <groupId>org.openjdk.jmh</groupId>
        <artifactId>jmh-generator-annprocess</artifactId>
        <version>1.38</version>
        <scope>provided</scope>
     </dependency>
 </dependencies>
```

- **JAVA**

```
@BenchmarkMode(Mode.AverageTime)          // Measure average execution time
@OutputTimeUnit(TimeUnit.MILLISECONDS)  // Results in ms
@State(Scope.Thread)                    // Each thread gets its own WebDriver
public class SeleniumPerformanceBenchmark {

    private WebDriver driver;

    @Setup(Level.Iteration)
    public void setup() {
        WebDriverManager.chromedriver().setup();
        driver = new ChromeDriver();
    }


    @TearDown(Level.Iteration)
    public void tearDown() {
```

```
        driver.quit();
    }


    @Benchmark
    public void testLoginPageLoad() {
        driver.get("http://localhost:8080/demo/login");  // Replace with your app
        WebElement username = driver.findElement(By.name("username"));
        WebElement password = driver.findElement(By.name("password"));
        WebElement submit = driver.findElement(By.cssSelector("button[type='submit']"));
        username.sendKeys("test");
        password.sendKeys("test123");
        submit.click();
    }

}
```

FOR RUNNING BENCHMARK

```
public class BenchmarkRunner {
    public static void main(String[] args)
     throws RunnerException {
        Options opt = new OptionsBuilder()
                .include(SeleniumPerformanceBenchmark.class.getSimpleName())
                .warmupIterations(1)     // Warmup runs
                .measurementIterations(3) // Real measurement runs
                .forks(1)                 // Single JVM fork
                .build();

        new Runner(opt).run();
    }

}
```