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***BSCS-6B***

***LAB#11***

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***ADVANCED PROGRAMMING***

***LOGIN PAGE:***

<html>

  <body>

    <form action="loginAction" id="loginForm">

      <label>User name:&nbsp;</label>

      <input type="text" name="username"><br>

      <label>Password:&nbsp;</label>

      <input type="text" name="password"><br>

      <button type="submit" id="loginButton">Log In</button>

      <button type="reset" id="reset">Clear</button>

    </form>

  </body>

</html>

<html>

  <body>

    <p class="message" id="loginResponse">WELCOME. You logged in successfully.</p>

  </body>

</html>

***SELENIUM TESTING:***

import [org.openqa.selenium.WebDriver;](https://wiki.saucelabs.com/display/DOCS/org.openqa.selenium.WebDriver;)

import [org.openqa.selenium.firefox.FirefoxDriver;](https://wiki.saucelabs.com/display/DOCS/org.openqa.selenium.firefox.FirefoxDriver;)

import [org.openqa.selenium.By;](https://wiki.saucelabs.com/display/DOCS/org.openqa.selenium.By;)

import [org.openqa.selenium.WebElement;](https://wiki.saucelabs.com/display/DOCS/org.openqa.selenium.WebElement;)

import [org.openqa.selenium.support.ui.ExpectedConditions;](https://wiki.saucelabs.com/display/DOCS/org.openqa.selenium.support.ui.ExpectedConditions;)

import [org.openqa.selenium.support.ui.WebDriverWait;](https://wiki.saucelabs.com/display/DOCS/org.openqa.selenium.support.ui.WebDriverWait;)

import [org.junit.Assert;](https://wiki.saucelabs.com/display/DOCS/org.junit.Assert;)

public class Example  {

  public static void main(String[] args) {

    // Create an instance of the driver

    WebDriver driver = new FirefoxDriver();

    // Navigate to a web page

[driver.get(](https://wiki.saucelabs.com/display/DOCS/driver.get()"[http://www.foo.com](http://www.foo.com/)");

    // Perform actions on HTML elements, entering text and submitting the form

    WebElement usernameElement     = [driver.findElement(By.name(](https://wiki.saucelabs.com/display/DOCS/driver.findElement(By.name()"username"));

    WebElement passwordElement     = [driver.findElement(By.name(](https://wiki.saucelabs.com/display/DOCS/driver.findElement(By.name()"password"));

    WebElement formElement        = [driver.findElement(By.id(](https://wiki.saucelabs.com/display/DOCS/driver.findElement(By.id()"loginForm"));

[usernameElement.sendKeys(](https://wiki.saucelabs.com/display/DOCS/usernameElement.sendKeys()"Alan Smithee");

[passwordElement.sendKeys(](https://wiki.saucelabs.com/display/DOCS/passwordElement.sendKeys()"twilightZone");

    //[passwordElement.submit();](https://wiki.saucelabs.com/display/DOCS/passwordElement.submit();) // submit by text input element

[formElement.submit();](https://wiki.saucelabs.com/display/DOCS/formElement.submit();%C2%A0%C2%A0%C2%A0%C2%A0%C2%A0%C2%A0%C2%A0) // submit by form element

    // Anticipate web browser response, with an explicit wait

    WebDriverWait wait = new WebDriverWait(driver, 10);

    WebElement messageElement = [wait.until(](https://wiki.saucelabs.com/display/DOCS/wait.until()

[ExpectedConditions.presenceOfElementLocated(By.id(](https://wiki.saucelabs.com/display/DOCS/ExpectedConditions.presenceOfElementLocated(By.id()"loginResponse"))

            );

    // Run a test

    String message                 = [messageElement.getText();](https://wiki.saucelabs.com/display/DOCS/messageElement.getText();)

    String successMsg             = "Welcome to foo. You logged in successfully.";

[Assert.assertEquals](https://wiki.saucelabs.com/display/DOCS/Assert.assertEquals) (message, successMsg);

    // Conclude a test

[driver.quit();](https://wiki.saucelabs.com/display/DOCS/driver.quit();)

  }

}