

Lab 4: Selenium IDE

SYSA 3204 – Dr. Sukhwant Sagar

Setting up the Python and Selenium IDE Project

This lab assignment will be completed by pairs of students. Submissions by individual students will not be accepted under normal circumstances. The intent is that the two students work together.

The group must follow the same naming format for both python file and Selenium IDE project. Create a new Selenium IDE project. **Name the project as *Lab4_GroupN*** but replace **N** with your actual group number. The **name of the test case** created should be **Lab4_firstname1_firstname2** and **test python file** generated name should be **test_Lab4_firstname1_firstname2.py**. Failure to follow this naming format makes it more difficult for me to download and grade your solution, so attention to this detail is appreciated.

Program Requirements:

The group lab is divided into two parts:

- A. Selenium IDE project
- B. Exported python file in working condition.

For part A., the group must find body fat % for individuals (both male and female) by going to <https://www.calculator.net/body-fat-calculator.html> using Selenium IDE record and play method. You may have to insert some control flow statements manually to get to the result. Your faculty has already taught you the use of control flow statements in Selenium IDE during your week 8 lecture class, you may have to revisit them.

This is the pseudocode provided to you.

1. Go to body fat calculator website link.
2. Store the gender to be selected in the variable.
3. If the gender is female, then
 - a) Click on the female radio button
 - b) Enter the following values to the respective labels

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Body Fat Calculator

US Units **Metric Units** **Other Units**

Gender ☐ male ☒ female

Age

Weight kg

Height cm

Neck cm

Waist cm

Hip cm

Calculate **Clear**

Result

Body Fat: 23.0%

10% 14% 21% 25% 32%
Essential Athletes Fitness Average Obese

Body Fat (U.S. Navy Method)	23.0%
Body Fat Category	Fitness
Body Fat Mass	23.0 kgs
Lean Body Mass	77.0 kgs
Ideal Body Fat for Given Age (Jackson & Pollard)	22.2%
Body Fat (BMI method)	37.4%

c) Assert the text present in result, in this case it's Body Fat: 23.0%

d) Print the result for female calculations on the screen

4. If the gender is male

a) Click on the male radio button

b) Enter the following values to the respective labels

Body Fat Calculator

US Units **Metric Units** **Other Units**

Gender ☒ male ☐ female

Age

Weight kg

Height cm

Neck cm

Waist cm

Calculate **Clear**

Result

Body Fat: 60.7%

Body Fat (U.S. Navy Method)	60.7%
Body Fat Category	Obese
Body Fat Mass	133.4 kgs
Lean Body Mass	86.6 kgs
Body Fat (BMI method)	397.4%

c) Assert the text present in result, in this case it's Body Fat: 60.7%

d) Print the result for male calculations on the screen

For part B. once this project is made, export the project as python file. Add the selenium webdriver components to it taught in Week 9 lecture class and make it workable. You may not be able to explain this python file, that's completely understandable as we still have to do more work on Selenium webdriver in coming weeks. The expectation from students is that this generated python code should be in

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working condition and in the video recording they should mention the minimal changes they have done in the code to make it work and show the execution too.

Things to Explore:

You are welcome to explore beyond the mandatory requirements if you wish.

General Requirements

- Include an opening comment with your full name, the full names on the student(s) you are working with, the name of the program, the date, and a short description.
- Follow the course style guide! Use descriptive names for variables, constants, arrays, functions, etc. that follow our naming conventions.
- **Attach the zipped project to the assignment folder. The zipped project should have working python file, Selenium .SIDE project and a video demonstration file.**
- Each of the lab partner should submit a video recording (sharing screen) explaining the Selenium IDE record and play work and the corrections made in exported python code to make the code work. The lab partner should also mention the distribution of tasks for this lab. Both these requirements would be considered for the teamwork component of the rubric.