

# SWE312: Software Construction & User Interfaces

## Lab 3

### JavaFX UI Controls

- Due date: **Wednesday 9<sup>th</sup>, of October 2024.**
  - Work INDIVIDUALLY. No group work is accepted.
  - Stick to deadlines! Late assignments will not be accepted.
  - Submit your solution to the LMS system, do not send it by email.
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**Q1:** Create a JavaFX program that allows users to convert currency as shown in the sample run below.

#### Sample Run:

### My Currency Converter

US DOLLAR		SAR RIYAL
<input type="text"/>	<input type="button" value="Convert"/>	<input type="text"/>

SAR RIYAL		US DOLLAR
<input type="text"/>	<input type="button" value="Convert"/>	<input type="text"/>

### My Currency Converter

US DOLLAR		SAR RIYAL
<input type="text" value="500"/>	<input type="button" value="Convert"/>	<input type="text" value="1875"/>

SAR RIYAL		US DOLLAR
<input type="text" value="6000"/>	<input type="button" value="Convert"/>	<input type="text" value="1602"/>

**Q2:** Create a JavaFX program that presents a graphical user interface (GUI) with a form containing the order Information. The program should allow users to input their order information, and click "ORDER" button, the GUI should display a confirmation message to the user.

**Sample Run:**

# McDonald's

Please fill the form below to place your order:

**NAME:**

Chicken Mac  \$5

Big Mac  \$7

Cheese Burger  \$4

**Special requests:**

None

**ORDER**

# McDonald's

Please fill the form below to place your order:

**NAME:**

Chicken Mac  \$5

Big Mac  \$7

Cheese Burger  \$4

## Special requests:

No lettuce

Thank you MAJDI RAWASHDEH for shopping with us

No lettuce

Subtotal \$39

Have a nice day


**ORDER**

**Q3:** Create a JavaFX program that calculates the BMI by allowing the user to input their height in centimeters and weight in pounds. The program should display the results as demonstrated in the sample run. The BMI is calculated using the following formula:

$$\text{BMI} = \frac{\text{weight in kg}}{(\text{height in meters})^2}$$

(Note: Convert the height from centimeters to meters and the weight from pounds to kilograms before calculating the BMI.)

BMI Calculator




Height (cm):

Weight (pounds):

BMI:

BMI Calculator



Height (cm):

Weight (pounds):

BMI: 13.80