EDUCATION COLLEGE

ADTP PROGRAM

Introduction to Programming in Python
(USCS23)

PYTHON PROJECT

Students are assigned to create a project using Python programming language that apply chapter 1 until chapter 8. Build a group of **three** or four, and you are assigned to do the following instructions:

1. You are assigned to create a mini lab project that applies Chapter 1 until Chapter 8.
2. Your project must be well designed and user friendly (at least includes color, picture, button, icon, menu etc.)
3. You can refer to Appendix A for the details of the project.
4. Use comments to describe your program, as well as other details such as your group members' name, program name, class name and date due.
5. Make sure your code runs smoothly without any syntax, logic, and runtime errors.
6. Display the output that meets your project needs.
7. No sleepy members and everyone must be involved in this project.
8. Save your application in a folder and submit the project folder to Google Classroom. Your folder contains:
    - Report
    - Source Code(.py)
    - Rename folder: USCS23Project_YourTeamMemberName

      example: -USCS23Project_Ali_Abu_Ahmad)
9. Complete your report (around 10 pages). Your report should include:
    a. Cover page, Table of content, Introduction, Help/user manual, and at least three examples of output).
    b. At least five references or more.
    c. Important part of Source Code

10. You are required to present your project.

11. These assignments are worth 60 points (20%) and must be uploaded by 11.59 PM on Friday, 26 April 2024.

12. Late submission will be penalized (2 marks per day).

Plagiarism is strictly prohibited. Marks will be severely deducted if found guilty. Late submission will be penalized.

Project USCS23 Rubric (60%)

- **Correctness (35 points)**
    - 35 Marks: Program covers all chapters from chapter 1 to chapter 8. The program meets the specifications. The program ran smoothly without error. The program includes validity checking. The program consists of a dialogue box and button.
    - 25 Marks: Program does not include one or two chapters. Program output is correct does not meet 1 or 2 of the requirements. The program includes validity checking. The program consists of dialogue box.
    - 15 Marks: Program does not include 3 to 4 chapters. Program gives correct output in some but not all cases. The program does not include validity checking.
    - 10 Marks: Part of the specification has been implemented, e.g. one out of two required subprograms.
    - 5 Marks: Program has elements of correct code but does not assemble/compile.

- **Readability (5 points)**
    - 5 Marks: Programmer name and assignment present. Sufficient comments to illustrate program logic. Well-chosen identifiers.
    - 3 Marks: Programmer name present, most sections have comments. Fair choice of identifiers
    - 1 Mark: Few comments, non-meaningful identifiers
    - 0 Mark: No programmer name. No comments. Poor identifiers

- **Graphics (10 points)**
    - 10 Marks: Include at least three images, 3 colors, and 3 symbols.
    - 5 Marks: Include one or two images, one or two colors, and one or two symbols.
    - 1 Mark: Include at least 1 image/color/symbol.

- **Report (5 points)**
    - 5 Marks: Complete all requirements.
    - 2.5 Marks: Missing 1 requirement.
    - 1 Marks: Missing 3 requirements.

- **Presentation (5 points)**
    - 2 Marks: Confident and Teamwork
    - 3 Marks: Understanding

Appendix A

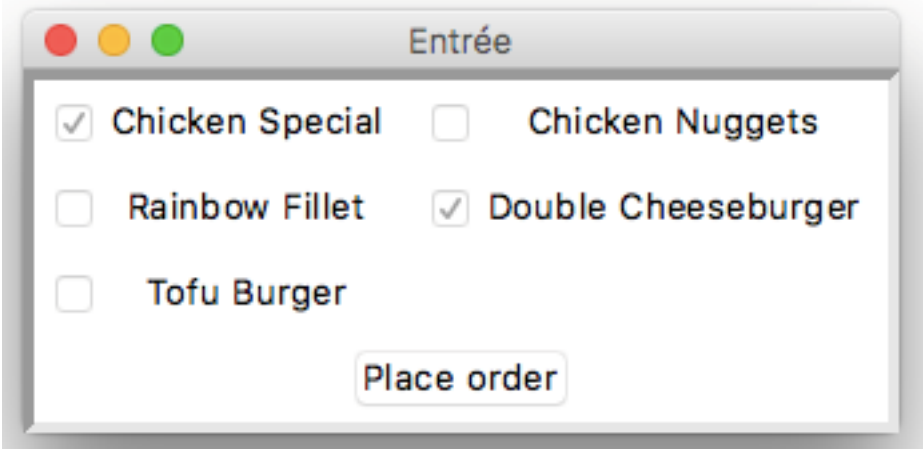
Project Overview:

My Fast Food

Develop an application for My Fast Food to list items for three menu categories and calculate the total cost of customer's order including 10% government tax. This company runs a fast-food business. It sells three menu categories: entrée, side dish and drink. The management enters lists items and their price for these three menu categories. Your program also must allow users to rate the food. The following table lists the example of items available keyed in by the management for each menu and their prices.

Entrée		Side Dish		Drink	
Chicken Special	$6.50	Apple Pie	$2.49	Café Mocha	$1.99
Chicken Nuggets	$5.50	Butter Bread	$2.00	Café Late	$1.99
Rainbow Fillet	$6.50	No-Salt Fries	$1.49	Orange Juice	$2.49
Double Cheeseburger	$7.00	Fun Ice Cream	$2.00	Ice Lemon Tea	$2.49
Tofu Burger	$3.49	Rice Cracker	$1.49	Pepsi	$1.99

Your program must allow the user to choose from the prompter box. You can use check buttons to allow customers to order more than one menu. Sample output is as shown in the following format:



Sample output of customer rating: