

**50 Points automatically deducted if program keeps crashing.**

In this assignment you **MUST** implement your **own functions** to create "101 DELIVERY" Application with specific rules.

You've been asked to write a Python program for "101 DELIVERY" app. It is a delivery app that you will need to implement using below rules.

### "101 DELIVERY" Rules:

- 1- It is a new app, so it can deliver food from either this restaurants (Chipotle , or Q39) or both restaurants (Chipotle and Q39) for now!
- 2- We will limit the menu for the restaurants to the options below:
  - a. Chipotle menu:
    - Chicken burrito \$7.95
    - Steak burrito bowl \$ 9.30
    - Chicken Quesadilla \$8.50
  - b. Q39 menu:
    - Wings \$13.25
    - Burnt End Burger \$16.50
    - Brisket \$12.99
- 3- Your Program should ask customers if they want to order from 1 restaurant or both. (see sample output).
- 4- Depending on customer choice, display menu of restaurant and ask customers to choose their item with the quantity needed.
- 5- Display total price of order so far and ask if customers need to add more items.
- 6- Step 4 and 5 will be the same for any restaurant.
- 7- For the order total:
  - a. If the order total is less than \$35:
    - user will have to pay a \$10 delivery fee
  - b. If the order total is \$35 or above, the user will have free delivery.
  - c. You will need to add 4.3% tax for any order.
    - **Note: delivery fee is calculated before applying taxes.**
- 8- You will need to validate all user inputs.
- 9- Display order total after tax and delivery fee (rounded to the nearest two digits).
- 10- You must define your own functions to receive full credit
  - a. You need to define a function for **each** restaurant.
    - Display the restaurant menu
    - Take the order
  - b. You need to define function for delivery fee and tax

- Calculate delivery fee and tax after placing the order
- Get the total of the orders **rounded to the nearest two digits.**
- c. **You need to define function for displaying the menu to customers.**
  - **Function that will display menu options: ( For Example: )**

Welcome to 101 DELIVERY

We deliver from any of these 2 restaurants

1- Chipotle

2- Q39

3- Both restaurnats

Enter your choice:

1 for Chipotle

2 for Q39

3 for Both restaurnats

==>

**d. Each function worth 20 points.**

**e. You can add more functions if you need to, but you must define the above functions first.**

**Output Sample ( THIS IS JUST A SAMPLE):**

Welcome to 101 DELIVERY

We deliver from any of these 2 restaurants

1- Chipotle

2- Q39

3- Both restaurants

Enter your choice:

1 for Chipotle

2 for Q39

3 for Both restaurants

==>5

Enter a valid option

Enter your choice:

1 for Chipotle

2 for Q39

3 for Both restaurants

==>1

Chipotle Menu:

1- Chicken burrito \$7.95

2- Steak burrito bowl \$ 9.30

3- Chicken Quesadilla \$8.50

Enter 1/2/3 to add items to your order

1

Enter your quantity

0

Enter a valid quantity

3

You ordered option 1 with quantity 3

Your total for now is \$23.85

Do you want to add anything else? N/Y

n

Your total is less than \$35

Your total is \$23.85 before tax and delivery fee

Your order total after tax and delivery fee is \$34.88

**IN CASE USER ORDER FROM BOTH RESTAURANTS (SAMPLE OUTPUT):**

Welcome to 101 DELIVERY

We deliver from any of these 2 restaurants

1- Chipotle

2- Q39

3- Both restaurants

Enter your choice:

1 for Chipotle

2 for Q39

3 for Both restaurants

==>3

\*\*\*First store:\*\*\*

Chipotle Menu:

1- Chicken burrito \$7.95

2- Steak burrito bowl \$ 9.30

3- Chicken Quesadilla \$8.50

Enter 1/2/3 to add items to your order

2

Enter your quantity

1

You ordered option 2 with quantity 1

Your total for now is \$9.3

Do you want to add anything else? N/Y

y

Chipotle Menu:

1- Chicken burrito \$7.95

2- Steak burrito bowl \$ 9.30

3- Chicken Quesadilla \$8.50

Enter 1/2/3 to add items to your order

1

Enter your quantity

2

You ordered option 1 with quantity 2

Your total for now is \$25.2

Do you want to add anything else? N/Y

n

\*\*\*Second store:\*\*\*

Q39 Menu:

1- Wings \$13.25

2- Burnt End Burger \$ 16.50

3- Brisket \$12.99

Enter 1/2/3 to add items to your order

1

Enter your quantity

3

You ordered option 1 with quantity 3

Your total for now is \$64.95

Do you want to add anything else from this store? N/Y

n

Your total is equal or greater than \$35

You have a free delivery

Your order total after tax is \$67.74

**Deliverables**

- Upload your Program and algorithm by October 16 before 11:59 PM. Don't lose points for silly mistakes. Make sure you comment at the top of your Program with your name, class section, and program #, as well as the creation date and the date due.