



# **CPT111**

School of Computer Sciences Semester 1: Session 2020/2021

## Assignment 2

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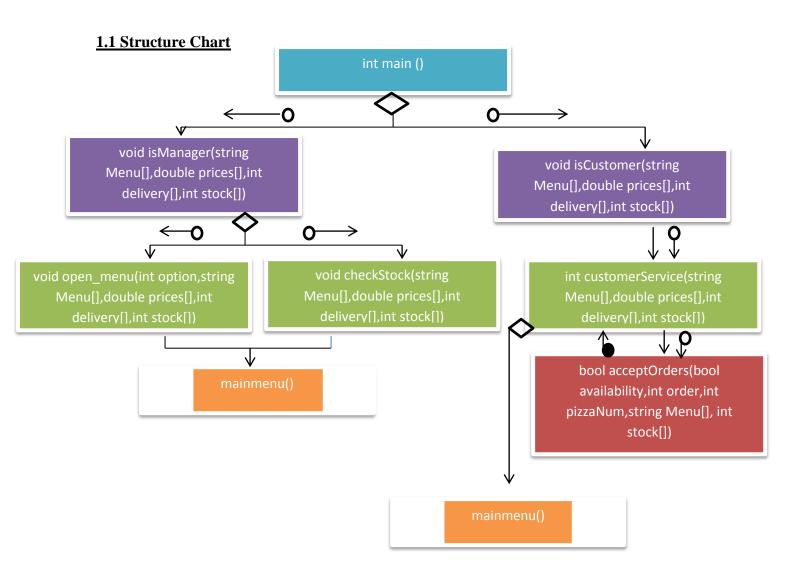
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## 1.2 Input/Output

No	Screenshot	Explanation
1.	######################################	User enters 1 to pick option "Restaurant Manager"
2.	Melcone back Sir/Madam †  ! [1] Create/Update Menu ! [2] Update Prices ! [3] Check Renaining Stock ! [4] Update Estinated Delivery Time Please choose one service that you would like to update [1-4]: 1  Melcone back Sir/Madam † ! [1] Create/Update Menu ! [2] Update Prices ! [3] Check Renaining Stock ! [4] Update Estinated Delivery Time Please choose one service that you would like to update [1-4]: 5 ERNORT Option entered does not exist. Please entor [1-4]. Choose one service that you would like to update [-6]: 0 ENORT Option entered does not exist. Please entor [1-4]. Choose one service that you would like to update/view [1-6]: 0	The following explanation applies to all options 1 to 4. Here, user enters 1 to pick option Create/Update menu and will be directed to an output screen where the menu, prices, and delivery times are listed. If user inputs number less than 1 or more than 5, an error message will appear. The error message will appear until user enters a correct input.

This is our current menu: Delivery Time(mins) Mars Margarita 15.00 **[21** Pepperoni Pluto 16.00 15 [3] Supernova Cheese 16.00 [4] Galactic Pizza Fusion 18.00 15 [5] Saturn's Onion Rings 7.00 [6] Crater's Mushroom Soup 7.00 [7] Moondust Lychee Juice 10.00 10 Space-Ready Orange Soda 10.00 [8] E-T Guava Juice [9] 7.00 [10] Supernova Sprite Fizz 5.00 [11] Venus's Lava Cake 8.50 10 [12] Moon's Vanilla Macaron 4.00 10

Do you want to update menu? [YES/NO]: yes

	Menu Names	Price (RM)	Delivery Time(mins
[1]	Mars Margarita	15.00	15
[2]	Pepperoni Pluto	16.00	15
[3]	Nebula Cheese	15.00	15
[4]	Galactic Pizza Fusion	17.00	15
[5]	Saturn's Onion Rings	7.00	6
[6]	Crater's Mushroom Soup	7.00	7
[7]	Moondust Lychee Juice	10.00	5
[8]	Space-Ready Orange Soda	10.00	5
[9]	E-T Guava Juice	7.00	5
[10]	Supernova Sprite Fizz	5.00	5
[11]	Venus's Lava Cake	8.50	10
	Moon's Vanilla Macaron	4.00	10

Price (RM) Delivery Time(mins) Menu Names Mars Margarita Pepperoni Pluto 16.00 Supernova Cheese 16.00 15 Galactic Pizza Fusion 18.00 Saturn's Onion Rings 7.00 6 Crater's Mushroom Soup 7.00 61 Moondust Lychee Juice Space-Ready Orange Soda 10.00 [8] E-T Guava Juice 7.00 [10] Supernova Sprite Fizz 5.00 5 (11) Venus's Lava Cake 8.50 10 Moon's Vanilla Macaron 10 o you want to update menu? [YES/NO]: yes nter number of dish/drink that you would like to update [1-12]: 3 nter new menu: Nebula Cheese

If user enters "Yes" to agree to update menu, user must input number 1 to 12 to update the respective menu names. However, if user enters input other than "Yes"/"YES"/"yes" "No"/"NO"/"no", an error message will appear. The error message will appear until user enters correct input.

Here, user chooses to update menu no. 3, so user inputs. Thus, the program will ask user to enter the name of the new menu.

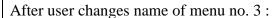
	Menu Names	Price (RM)		Time(mins)
[1]	Mars Margarita	15.00	15	
[2]	Pepperoni Pluto	16.00	15	
[3]	Cheesy Pluto	15.00	15	
[4]	Galactic Pizza Fusion	17.00	15	
[5]	Saturn's Onion Rings	7.00	6	
[6]	Crater's Mushroom Soup	7.00	7	
[7]	Moondust Lychee Juice	10.00	5	
[8]	Space-Ready Orange Soda	10.00	5	
[9]	E-T Guava Juice	7.00	5	
[10]	Supernova Sprite Fizz	5.00	5	
[11]	Venus's Lava Cake	8.50	10	
[12]	Moon's Vanilla Macaron	4.00	10	
	want to update menu? [YES/NO]: y			
Enter n	umber of dish/drink that you wou	ld like to	update [1-12]:	13
	Input Invalid. Please enter numb umber of dish/drink that you wou			0
ERROR! Enter n	Input Invalid. Please enter numb umber of dish/drink that you wou	er between	1 to 12 ONLY. update [1-12]:	

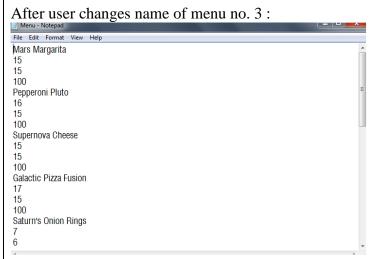
However, if user enters input other less than 1 or more than 12, an error message will appear. The error message will appear until user enters a correct input.

[2] Pe	ars Margarita epperoni Pluto osmic Cheese	15.00	15 15
[31 Co			15
	osmic Cheese	45.00	
		15.00	15
[4] Ga	alactic Pizza Fusion	17.00	15
[5] Sa	aturn's Onion Rings	7.00	6
[6] Cı	rater's Mushroom Soup	7.00	7
[7] Mo	oondust Lychee Juice	10.00	5
[8] S <sub>1</sub>	pace-Ready Orange Soda	10.00	5
[9] E-	-T Guava Juice	7.00	5
[10] St	upernova Sprite Fizz	5.00	5
[11] Ve	enus's Lava Cake	8.50	10
[12] Mo	oon's Vanilla Macaron	4.00	10

If all user inputs are correct, after user enters the name of the menu, the content of file of that menu will change, here's an example. User enters number 3 as the menu that they want to update, user wants to change the menu "Cosmic Cheese" to "Supernova Cheese".

### Original contents of "Menu.txt":





Contents of file will change accordingly.

argarita oni Pluto Pluto ic Pizza Fusion 's Onion Rings 's Mushroom Soup	15.00 16.00 15.00 17.00 7.00 7.00	15 15 15 15 6	
Pluto ic Pizza Fusion 's Onion Rings 's Mushroom Soup	15.00 17.00 7.00	15 15 6	
ic Pizza Fusion 's Onion Rings 's Mushroom Soup	17.00 7.00	15 6	
's Onion Rings 's Mushroom Soup	7.00	6	
's Mushroom Soup			
	7.00		
		7	
st Lychee Juice	10.00	5	
Ready Orange Soda	10.00	5	
ava Juice	7.00	5	
ova Sprite Fizz	5.00	5	
s Lava Cake	8.50	10	
Vanilla Macaron	4.00	10	
	uava Juice nova Sprite Fizz s Lava Cake : Vanilla Macaron o update menu? [YES/1	nava Juice 7.00 nova Sprite Fizz 5.00 s Lava Cake 8.50	1

After that, the program will ask whether user wants to update more or not. if user enters input than other "Yes"/"YES"/"yes" "No"/"NO"/"no", an error message will appear. The error message will appear until user enters correct input.

If user enters yes,

	Menu Names	Price (RM)	Delivery Time(mins
11	Mars Margarita	15.00	15
21	Pepperoni Pluto	16.00	15
[3]	Cheesy Pluto	15.00	15
[4]	Galactic Pizza Fusion	17.00	15
[5]	Saturn's Onion Rings	7.00	6
[6]	Crater's Mushroom Soup	7.00	7
[7]	Moondust Lychee Juice	10.00	5
[8]	Space-Ready Orange Soda	10.00	5
[9]	E-T Guava Juice	7.00	5
[10]	Supernova Sprite Fizz	5.00	5
[11]	Venus's Lava Cake	8.50	10
[12]	Moon's Vanilla Macaron	4.00	10
Enter Enter Do you ERROR!	want to update menu? [YES/NO] number of dish/drink that you new menu: Cheesy Pluto want to update more menu? [YE We didn't quite catch that I	would like to upd S/NOl: lol I'. Please enter	
	want to update more menu? [YF Y to go back to main menu or p		Y/X]: z
EDDADO	We didn't guite catch that T_	T'. Please enter	[Y/X].

the program will ask user to enter the no. of the menu they wish to update, if not, the program will display two choices, Y to go back to main menu or X to exit. If user enters input other than Y or X, an error message will appear and user will be asked to enter until user again enters the correct input

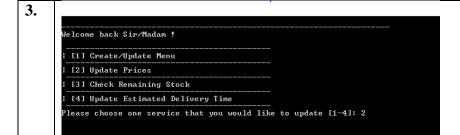
#### If user enter 'Y' or 'y':

Do you want to update menu? [YES/NO]: no ress Y to go back to main menu or press X to exit. [Y/X]: x rocess exited after 13.39 seconds with return value 1 ress any key to continue . . .

#### If user enters 'X' or ' $\overline{x}$ ':



We deliver 5-star meals right at your front door? ress any key to continue . . .



```
Menu Names
                                                           Delivery Time(mins)
                                          Price (RM)
        Mars Margarita
                                             15.00
                                                                15
[2]
        Pepperoni Pluto
                                             16.00
                                                                15
                                             15.00
[3]
        Supernova Cheese
                                                                15
[4]
        Galactic Pizza Fusion
                                             17.00
                                                                15
[5]
        Saturn's Onion Rings
                                              7.00
        Crater's Mushroom Soup
[6]
                                              7.00
[7]
        Moondust Lychee Juice
                                             10.00
[8]
        Space-Ready Orange Soda
                                             10.00
[9]
        E-T Guava Juice
                                              7.00
[10]
       Supernova Sprite Fizz
                                              5.00
[11]
       Venus's Lava Cake
                                              8.50
                                                                10
[12]
        Moon's Vanilla Macaron
                                              4.00
                                                                10
 o you want to update price? [YES/NO]: yes
Enter number of dish/drink that you would like to update its price [1-12]: 1
Enter new price: RM13
Do you want to update more prices? [YES/NO]: no
 ress Y to go back to main menu or press X to exit. [Y/X]: x
```

#### Original contents of "Menu.txt":

After user changes price of menu no. 1:



Here,user enters 2 to pick option Update Prices and will be directed to an output screen where the menu, prices, and delivery times are listed, the same as before.

Here, user chooses to update price of menu no. 1, so user inputs. Thus, the program will ask user to enter the new price. User change want to price of Mars Margarita from RM15 to RM13.

Contents of file will change accordingly.

4.

```
Welcome back Sir/Madam !

[1] Create/Update Menu

[2] Update Prices

[3] Check Remaining Stock

[4] Update Estimated Delivery Time

Please choose one service that you would like to update [1-4]: 3
```

Mars Margarita Pepperoni Pluto Supernova Cheese Galactic Pizza Fusion 100 4] 51 Saturn's Onion Rings 100 Crater's Mushroom Soup 100 Moondust Lychee Juice Space-Ready Orange Soda [9] E-T Guava Juice 100 [10] Supernova Sprite Fizz 100 Venus's Lava Cake 111 Moon's Vanilla Macaron Do you want to add stock? [YES/NO]: yes Enter number of dish/drink that you would like to add its stock [1—12]: 8 Enter amount of stock: 1 Do you want to add more stocks? [YES/NO]: no ress Y to go back to main menu or press X to exit. [Y/X]: x rocess exited after 33.1 seconds with return value 1 ress any key to continue . . .

Original contents of Menu no. 8 in "Menu.txt":

Space-Ready Orange Soda

10

5

99

After user add stock of menu no. 8:

Space-Ready Orange Soda

10

5

100

Here,user enters 3 to pick option "Check Remaining Stock" and will be directed to an output screen where the menu, and stocks are listed.

Here, user chooses to add stock of menu no. 8, so user inputs 8. Thus, the program will ask user to enter the amount of stock they want to add. User want to add stock of "Space-Ready Orange Soda" by 1.

Contents of file will change accordingly.

**5.** 

```
Welcome back Sir/Madam !

[ [1] Create/Update Menu

[ [2] Update Prices

[ [3] Check Remaining Stock

[ [4] Update Estimated Delivery Time

Please choose one service that you would like to update [1-4]: 4
```

	Menu Names	Price (I		Time(mins)
[1]	Mars Margarita	13.00		
[2]	Pepperoni Pluto	16.00	ð 15	
[3]	Supernova Cheese	15.00	ð 15	
[4]	Galactic Pizza Fusion	17.00	ð 15	
[5]	Saturn's Onion Rings	7.00	ð 6	
[6]	Crater's Mushroom Soup	7.00	9 7	
[7]	Moondust Lychee Juice	10.00	ð 5	
[8]	Space-Ready Orange Soda	10.00	ð 5	
[9]	E-T Guava Juice	7.00	ð 5	
[10]	Supernova Sprite Fizz	5.00	ð 5	
[11]	Venus's Lava Cake	8.50	10	
[12]	Moon's Vanilla Macaron	4.00	10	
Enter	uwant to update delivery time number of dish/drink that you late its delivery time [1-12]:	would like	yes	
	new delivery time: 6 want to update more delivery	times? [YES/	/NO]: no	
Press	Y to go back to main menu or	press X to ex	xit. [Y/X]: x	
Proces	s exited after 30.39 seconds	with return v	value 1	

Original contents of Menu no. 12 in "Menu.txt":

Moon's Vanilla Macaron

4

10

100

After user change delivery time of menu no. 12:

Moon's Vanilla Macaron

4

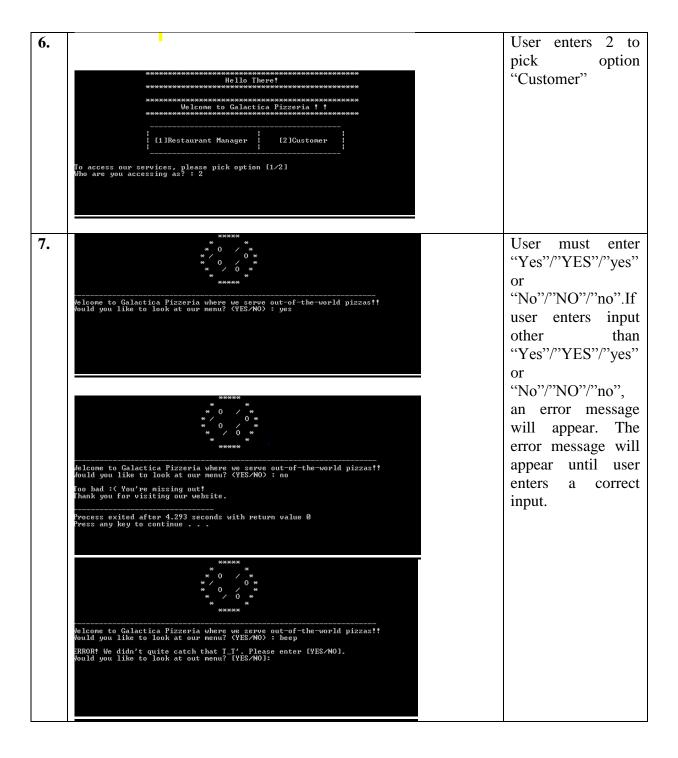
6

100

Here, user enters 4 pick option "Update Estimated Delivery Time" and will be directed to an output screen where the menu, prices, and delivery times are listed, the same as before. Delivery time is basically how long it takes for the restaurant to make the food or drink.

Here, user chooses to change delivery time of menu no. 12, so user inputs 12. Thus, the program will ask user to enter the new delivery time. User wants change delivery time of "Moon's Vanilla Macaron" from 10 minutes to 6 minutes.

Contents of file will change accordingly.



	#########ENU######		
	Menu Names	Price	
[1]	Mars Margarita		.00
[2]	Pepperoni Pluto	16	.00
[3]	Nebula Cheese	15	.00
[4]	Galactic Pizza Fusion	17	.00
[5]	Saturn's Onion Rings	7	.00
[6]	Crater's Mushroom Soup	7	.00
[7]	Moondust Lychee Juice	10	.00
[8]	Space-Ready Orange Soda	10	.00
[9]	E-T Guava Juice	7	.00
[10]	Supernova Sprite Fizz	5	.00
[11]	Venus's Lava Cake	8	.50
[12]	Moon's Vanilla Macaron	4	.00
	Enter your order [1-12]: 11 Enter amount of desserts you *Order Available!* You ordered Venus's Lava Cak Amount of dessert : 1		
dould y	YOU ORDERED Venus's Lava Cak ORDER SUCCESSFULLY SAVED ou like to add another order?		:

If user enters "YES"/"Yes"/"yes" user will directed to an output screen that shows menu names and prices, user must enter order number and amount of them.

Enter your order [1-12]: 13 RROR! Input Invalid. Please enter number between 1 to 12 ONLY. Enter your order [1-12]:

If user enters input other or less than 1 or less than 12, an error message will appear. The error will message appear until user enters a correct input.

Enter your order [1-12]: 11 Enter amount of desserts you desire : 1 \*Order Available!\*
You ordered Venus's Lava Cake : RM8.50
Amount of dessert : 1 YOU ORDERED Venus's Lava Cake ORDER SUCCESSFULLY SAVED vould you like to add another order? [YES/NO]: yes Enter your order [1-12]: 1 Enter amount of pizza you desire : 200 \*We're really sorry : ( Mars Margarita is OUT OF STOCK\* would you like to add another order? [YES/NO]:

Then, user must enter amount of their order, if its in stock, the order is available, if it's not, the order is not available. After that, user will be asked whether they want to add another order.

Enter your order [1-12]: 13

ERROR! Input Invalid. Please enter number between 1 to 12 ONLY.

Enter your order [1-12]: 1

Enter amount of pizza you desire: 1

\*Order Available!\*
You ordered Mars Margarita: RM15.00
Amount of pizza: 1

YOU ORDERED Mars Margarita
YOUR ORDER IS SUCCESSFULLY SAUED

Would you like to add another order? [YES/NO]: meep

ERROR! We didn't quite catch that T\_T'. Please enter [YES/NO].
Would you like to add another order? [YES/NO]:

User must enter "Yes"/"YES"/"yes" or "No"/"NO"/"no".If user enters input other than "Yes"/"YES"/"yes" or "No"/"NO"/"no", an error message will appear until user enters a correct input.

9. ###Galactica Pizzeria's Customer Info###

umber of customers: 1

ress 1 to order again,otherwise press 2

ress Y to go back to main menu or press X to exit. [Y/X]:

###Galactica Pizzeria's Customer Info###

umber of customers: 1

ress 1 to order again,otherwise press anything else..

ress Y to go back to main menu or press X to exit. [Y/X]: k

RROR! We didn't quite catch that  $I_I$ '. Please enter [Y/X]. ress Y to go back to main menu or press X to exit. [Y/X]: \_

At the end of the program, after the bill is displayed and the sales, highest, lowest selling menu and number of customers are displays, user is asked to press 1 to order again otherwise press any key. If user press 1, user will directed to the ordering screen. otherwise, user is asked to press Y to back to main menu or X to exit. User must enter

'Y'/'y' or 'X'/'x' or an error message will appear. The error message will appear until user enters a correct input.

