## Assigment 1

# **Brew Coffee shop**

Implement this program with the data structure you already learned (array, linked list, hash table, and/or binary tree).

+++++ Brew Cof Welcome, Mr./Mrs. Asd	fee Shop +++++	
No.  Menu	Type   Quan	tity   Price
1   Americano 2   Chocolate Baked 3   Alberto	Coffee     Non-coffee     Coffee	24   19000   15   24000   7   44000

- We will have 2 roles, first is **customer** and **admin**
- For **customer** menu:

No.  Menu	Type   Quantity	   Price
1   Americano 2   Chocolate Baked 3   Alberto	Coffee   24 Non-coffee   15 Coffee   7	19000   24000   44000
1. Buy item 2. Cancel item 3. Exit		
Enter your action:		

- 1. Buy item
  - o Input only the available number
  - o Cannot input quantity more than each item quantity

No.  Menu	Туре	Quantity	Price
1   Americano 2   Chocolate Baked 3   Alberto	Coffee   Non-coffee   Coffee	24     15     7	19000 24000 44000
choose your menu [1 - 3]: 1 enter the quantity [1 - 24]: 12			

 You must decrease the quantity for the selected item and the price is calculated from price \* quantity

 No.  Menu	 Туре	===================   Quantity   Price	
1   Americano 2   Chocolate Baked 3   Alberto	Coffee Non-coffee Coffee	15	19000   24000   44000
1. Buy item 2. Cancel item 3. Exit			
your order :			
No.  Menu	Туре	Quantity   Total	Price
1   Americano	Coffee	12	228000

- 2. Cancel Item is just deleting all of your order (pop all)
- 3. Exit
- For **Admin** menu:

No.   Manu				
No.  Menu	Type	Quantity	Price	I
1   Americano 2   Chocolate Baked 3   Alberto	Coffee     Non-coffee     Coffee	24   15   7	19000 24000 44000	
1. Add item 2. Remove item 3. Exit Enter your action:				

### 1. Add item

- o Length of name should be more than 5 and less than 20
- o Type of coffee only "yes" or "no" answer
- Quantity >1 and <100</li>
- o Price >10000 and < 200000

Insert item name: Vanilla

Type of Coffee[yes/no]: no
Insert the quantity of the item: 12
Insert the price of the item: 20000

No.  Menu				
1   Americano 2   Chocolate Baked 3   Alberto 4   Vanilla	Coffee   Non-coffee   Coffee   Non-coffee	24   15   7   12	19000 24000 44000 20000	
1. Add item 2. Remove item 3. Exit Enter your action:				

### 2. Remove item

No.  Menu	Type	Quantity		 
1   Americano 2   Chocolate Baked 3   Alberto 4   Vanilla	Coffee     Non-coffee     Coffee     Non-coffee	24   15   7   12	19000 24000 44000 20000	
1. Add item 2. Remove item 3. Exit				

# $\circ\;$ Only can choose the available number

No.  Menu	Type	Quantity		
1   Americano 2   Alberto 3   Vanilla	Coffee Coffee Non-coffee	24   7   12	19000 44000 20000	
1. Add item 2. Remove item 3. Exit				