

PYTHON IFE RETAIL MARKET PROJECT

(2020)

Note: The aim of the project is to see what you have learnt so far, how you can put together fundamental concepts to solving this problem.

Project duration: September 14th (monday) - September 17th, 2020 (thursday).

Project Description:

Mr Adamu has a retail market where he sells daily basic food items. The table below shows the items, available quantity and prices.

- a. As a python developer you were told to develop a python program that keeps in check stock details, pricing and others. Let your program have the following basic functionality (note: you can add your own):
 1. An inbuilt function for admin to change the price of any of the items.
 2. An inbuilt function for admins to add more items.
 3. An inbuilt function to compute goods purchased per customer and displays a receipt for printing.
 - a. The function must be able to add 20% VAT for customers buying less than 5 items.
 - b. 30% VAT for customers buying more than 10 items.
 - c. N800 bonus goods for customers purchasing more than 10 items with the least amount being N100.
 4. An inbuilt function that updates stock after an item has been purchased.
 5. An inbuilt function that takes record of total gain per day.
- b. Write a test program, that communicates with the buyer, taking note of the following:
 - i. Displays the available items.
 - ii. Their corresponding price.
 - iii. Receives items customers want to buy, and their corresponding quantities.
 - iv. Computes their total payment.
 - v. Finally display to the customers, a receipt (with the item purchased, quantity, corresponding prices and total price). Also display discounts (if any).

s/n	item	Available Quantity	Price per quantity(N)
1	Sugar	131	50
2	Bread (sliced)	311	200
3	Bread (unsliced)	229	150

4	Egg	545	50
5	Three crown (tin)	201	150
6	Peak milk (tin)	230	120
7	Peak milk (sachet)	791	50
8	Bournvita (sachet)	611	50
9	Milo (tin)	367	500
10	Peak milk (Large Sachet)	889	700
11	Milo (Large Sachet)	934	700
12	Bournvita (Large Sachet)	758	100
13	Custard (small sachet)	383	200
14	Corn flakes (small sachet)	647	150
15	Golden morn (small sachet)	121	100
16	Detergent (small Wawu)	198	120
17	Detergent (small Aerial)	354	115
18	Detergent (Big Wawu)	323	200
19	Detergent (Big Aerial)	222	250
20	Corn flakes (big sachet)	341	750
21	Golden morn (Large sachet)	458	650
22	Sprite (small)	134	80
23	Pepsi (small)	674	80
24	Fanta (small)	757	80
25	Lacaseria (small)	127	80
26	Sprite (big)	956	150
27	Pepsi (big)	374	150
28	Fanta (big)	267	150
29	Lacaseria (big)	786	150
30	Coke (big)	546	150

