

**Date Released:**

Saturday, April 23, 2022

**Due Date:**

Tuesday, April 26, 2022

## Coding Assignment - VI

---

### Read the Instructions Carefully

Madam Jessica Hanson is a fruit seller. She sells watermelon, pineapple, orange and grapes.

Table I shows the unit prices of each fruit she sells. Madam Hanson gives a discount to her customers based on the number of items bought; shown in Table II. Write a computer program to assist Madam Hanson to determine the payable amount of any customer.

Table I: The Unit Price of Each Fruit Sold by Madam Hanson.

Fruits	Unit Price (GHC)
Watermelon	4.0
Pineapple	5.0
Orange	1.0
Grapes	7.0

Table II: Discount Per Number of Items Bought.

Discount (%)	Number of Items (N)
0	$< 2$
2	$2 < N \leq 5$
5	$5 < N \leq 10$
10	$N > 10$

## Coding Specifications:

1. You are required to ask the user for the input of the quantity of watermelon, pineapple, orange and grapes he/she is buying.
2. Define a global constant for the fruits' unit prices. Use **CONST** not **#define**.
3. Apply a control flow to determine how much discount the person will receive and calculate the amount payable.
4. Choose your data types cautiously.
5. Your program should work as shown in the figure below. All computed operations should be formatted to 2 decimal places (2 dp).

A screenshot of a terminal window with a dark background and three colored window control buttons (red, yellow, green) at the top left. The terminal displays the output of a program. It starts with a line of asterisks, followed by four lines asking for the quantity of different fruits: Watermelon (5), Pineapple (1), Orange (2), and Grapes (2). Another line of asterisks follows. Then, three lines show calculated values: Total Amt. (GHC) as 41.00, Discount. (GHC) as 2.05, and Amount Payable. (GHC) as 38.95. The output ends with a final line of asterisks.

```
*****
Quantity of Watermelon: 5
Quantity of Pineapple: 1
Quantity of Orange: 2
Quantity of Grapes: 2
*****
Total Amt. (GHC): 41.00
Discount. (GHC): 2.05
Amount Payable. (GHC): 38.95
*****
```

## How to upload your code

1. Click [here](#) to upload your assignment.
2. In your project folder, identify the **main.c** and rename it to your index number. For instance, If my index number is **2053244**, the name of the file will be **2053244.c**  
**Do not add another “.c” to the file name again.**
3. Failure to use the correct format in naming your file will lead to your code not being graded.