

Date Released:

Wednesday, April 13, 2022

Due Date:

Sunday, April 17, 2022

Coding Assignment - V

Read the Instructions Carefully

“Ataa Gob3” is one of the most popular food joints around Engineering gate. Most students go there to enjoy their delicious “gob3”. The common food combination used by students is beans & gari (BG), ripe plantain (RP), plain rice (PR), and an egg.

Sister Ataa, the owner of the food joint, wants to know how much sales she’s expected to make within the week (Monday – Friday) if she decides to offer a discount of 5.5% on any food bought. Table 1 shows the average number of students who visit her food joint on a daily basis and the combinations used.

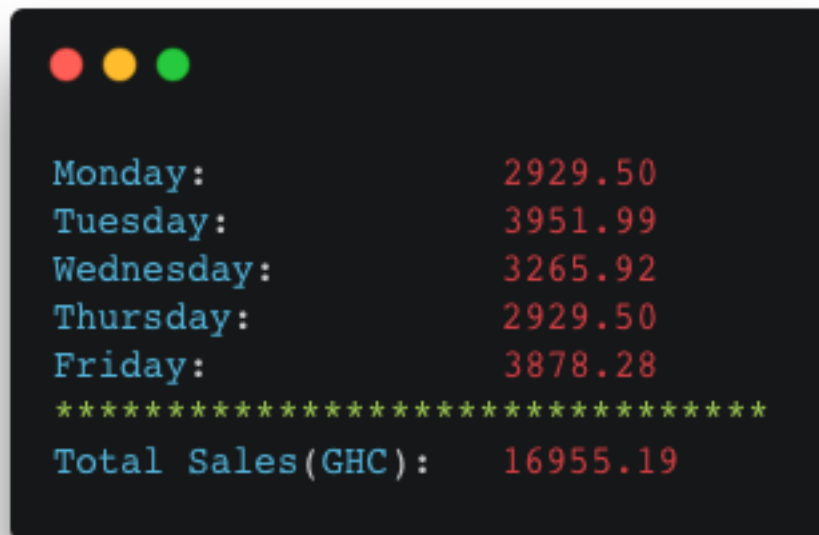
As an engineering student, you are required to help Sister Ataa by writing a simple computer program to give her an idea of how much she is expected to make within the week.

Table 1: Average number of students who visit the food joint within the week and the combinations used.

Day	BG (GHC)	RP (GHC)	PR (GHC)	Average Number of Students
Monday	2	1	2	500
Tuesday	3	2	2	510
Wednesday	2.5	2	1.5	480
Thursday	1.5	2	1.5	500
Friday	2	2	2	570

Coding Specifications:

1. Define a global constant for the discount value and also the price of an egg (which is GHC 1.2).
2. Implement a subroutine called `calculateFoodPrice` that takes the food combinations as inputs and returns the payable amount. Do not pass already defined global constants as input to this subroutine.
3. Choose your data types cautiously.
4. Your program should work as shown in the figure below. All computed operations should be formatted to 2 decimal places (2 dp).

A terminal window with a dark background and three colored window control buttons (red, yellow, green) at the top left. The output is displayed in a monospaced font with color coding: days of the week in blue, values in red, a separator line of asterisks in yellow, and the final total in blue and red.

```
Monday:                2929.50
Tuesday:               3951.99
Wednesday:            3265.92
Thursday:              2929.50
Friday:                3878.28
*****
Total Sales(GHC):      16955.19
```