**Assignment #2 – Grocery Shopping:**

Write a C++ program that allows a user choose item to purchase from a list; ask for the amount to calculate the cost of the purchase; offer to add a tip; add a delivery fee based on the subtotal; then calculate the total amount that the user needs to pay.

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----- GROCERY SHOPPING ITEMS -----

1. Milk - $5.99 / gallon
2. Egg - $6.99 / dozen
3. Cheese – $10.98 / 8oz
4. Pasta – $2.75 / packet

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Other Values to be used in the program.

TIP (Optional) : $5.00

SHIP\_RATE1 (for $20 or below) : $0.00

SHIP\_RATE2 (for between $20 and $35): 4.35

SHIP\_RATE3 (for above #35) : 7.65

**Follow the Steps Below**

1. The grocery list items and their prices are given above. You need to print it in the same format in your program. **Use formatting output feature of the cout.**
2. Ask the user to choose one of the items. Use **the switch** statement to evaluate user’s selection.
3. Ask the user to **enter quantity** of the chosen item. Then **calculate the cost** of the purchase.
4. Ask the user if he/she wants to pay a $5 tip. If the answer **Yes**, then add $5 to the cost; otherwise, keep the cost as it is. **Use conditional formatting to code this**.
5. Chek the subtotal. If it is less than or equal to $20.00, the shipping is free. If it is greater than $20.00 and less than or equal to $35.00, the shipping is $4.35. If it is greater than $35, then the shipping is $7.65. Based on the decision here calculate the total price that the user needs to pay.
6. Format the total price in **fixed-point notation, with two decimal places of precision, and be sure the decimal point** is always displayed.

* Define all the numbers that you need to use in the program as **named constants**. Use their identifier in the calculations instead of the values.
* Identify **variables with descriptive names**.
* Use **comment lines** for each block of your program to describe the purpose of that block statement.
* Add a comment line at the top to tell the purpose of the program.

You must submit both files (zipped project folder and .cpp extension) of the program.

**Rubric**

* *Code readability with indentations, spaces when necessary* ***(5 points)***
* *Comment lines for description* ***(5 points)***
* *Variable definitions with proper identifier and the right data type* ***(7 points)***
* *Constant definitions with proper identifier and the right data type* ***(8 points)***
* *Formatting output for the Menu display and the total price display* ***(15 points)***
* *The use of the switch statement* ***(15 points)***
* *The use of the conditional formatting* ***(10 points)***
* *The use of the if /else statement.* ***(15 points)***
* *Correct calculations.* ***(10 points)***
* *Proper message display* ***(5 points)***
* *Submitting the correct files* ***(5 points)***