

Intro to Python - Lesson 4

Please review the following website on “Using comments” and the video on Constants before the Python class.

<https://phoenixnap.com/kb/how-to-use-comments-in-python>

<https://www.youtube.com/watch?v=gXF5HyW-z7Y>

Use the following exercise to practice IPO Charts and Python – add comments at the beginning of the program (Description, Author, and Dates) and throughout the code to explain the purpose of code blocks. Add blank lines in you code to avoid crowding and add print() statements through the input and print() statements to make the screen display look nice for the user.

1. Using the NL Chocolate Company and Computer Liquidations programs, add comments, constants and proper spacing for the program so it looks professional and easy to read.
2. Write a program for Lawn Care Company to help and prepare invoices for their customers. Use good spacing, comments and constants. Input for the program will include the customer’s name, address, city and phone number, along with the lawn area (in sq. meters) and border circumference (in meters), and finally, the time to complete the job (in intervals as follows: 1.00, 1.25, 1.50, 1.75, 2.00, etc.

Treatments include a fertilizer treatment, a bug spray, and a border treatment around the edges. The fertilizer treatment is 0.40 cents per square meter, the bug spray is 0.34 cents per square meter, and the border treatment is 0.55 cents per meter of the boundary. These values are added together for the total treatment cost. Labor cost is based on a rate of 34.50 per hour by the time required to complete the job. The treatment cost and the labor cost will be added for a subtotal. HST is calculated at 15% on the subtotal, and the invoice total is the subtotal plus the HST.

Display all input values and calculated values to the screen.

3. Design a program to be used by The Gym to bill their members monthly. Set up a constant for the membership fees, the extra costs, the sales tax rate, and the cancellation fee. The user will input from the keyboard the membership number, member name, street address, phone number, and the number of family members on the membership.

Calculate the total membership fees as the member cost plus the extras. Use a membership fee of \$125 per month for the first member and \$75.00 for each additional member to calculate the member cost. There is also a towel service offered at 6.00 per member per month and a maintenance fee equal to 1% of the member cost only . Add these costs together for the total membership fee. HST is calculated at 15% on the total membership fee. The total membership cost is the total membership fees plus the HST. If the member cancels their membership at any time, the cancellation fee is 60% of the membership cost for 3 months.

Display all input values and calculated values to the screen.

See you at 1.