



Lab03

COMP 125 Programming with Python



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Seconds Calculator

1. Write a program that asks the user to enter the **current time**.
2. Time information should be received as three integer values for **hour**, **minute**, **second**. Assume that the input is always numeric in 24 hour format.
3. The program should check whether the input values are within limits: $0 \leq \text{hour} \leq 23$; $0 \leq \text{minute} \leq 59$; $0 \leq \text{second} \leq 59$
4. Next, the program should ask the user for time difference in seconds. You can assume that the time difference will be small, so that the final time is not passed midnight.
5. The program should return the final time by adding the time difference to the current time and display the final time in military format.

Ex 1: Current time: 11:30:23; Time difference: 3728; Final time: 12:32:31

How would you like your coffee? (version 1)

Write a program to receive a coffee order. The input for part 1 should be a string and for part 2 it should be numeric. Only the specified spellings are accepted for the string inputs. Similarly, for the numeric input only the indicated numbers are accepted. Any other input should be treated as wrong and the program should terminate with a message: "Wrong input, please start over".

- 1) Ask for type of coffee: espresso, latte, or mocha. Valid answers are: "Espresso" or "espresso", "Latte" or "latte", "mocha" or "mocha".
- 2) Using the menu prices below, display the price and ask: "Please enter payment method: 1) cash, 2) credit card, 3) debit card. Please enter your choice numerically."
 - Espresso: 8.75
 - Latte: 11.50
 - Mocha: 13.50
- 3) All prices are in TL. If the user is paying with cash, make a 5% discount. Display the final cost with a message: "That will be in total. Thank you." Replace the dots with the actual cost. Print the cost with 2 decimal places.
- 4) Print the Spider Coffee's logo to the screen. The logo should be stored as a single string type variable named **spider**, so that you can use it as **print(spider)**.

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How would you like your coffee? (version 2)

Write a program to receive a coffee order. The input for parts 1-3 should be a string and for part 4 it should be numeric. Only the specified spellings are accepted for the string inputs. Similarly, for the numeric input only the indicated numbers are accepted. Any other input should be treated as wrong and the program should terminate with a message: "Wrong input, please start over".

- 1) Ask for type of coffee: espresso, latte, or mocha. Valid answers are: "Espresso" or "espresso", "Latte" or "latte", "mocha" or "mocha".
- 2) If the order is an espresso, ask user input for "single" or "double".
- 3) If the order is a "latte" or a "mocha", ask for user input for "S", "M" or "L".
- 4) Using the menu prices below, display the price and ask: "Please enter payment method: 1) cash, 2) credit card, 3) debit card. Please enter your choice numerically."
 - Espresso: single: 8.75, double: 9.75
 - Latte: S: 11.50, M: 13.25, L: 14.75
 - Mocha: S:13.50, M:15.50, L:18.75
- 5) All prices are in TL. If the user is paying with cash, make a 5% discount. Display the final cost with a message: "That will be in total. Thank you." Replace the dots with the actual cost. Print the cost with 2 decimal places.
- 6) Print the Spider Coffee's logo to the screen. The logo should be stored as a single string type variable named **spider**, so that you can use it as **print(spider)**.

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