

Lab 01 - Assignment
Python Basics
CS 112 – Summer 2022

Description

SpongeBob SquarePants just got his driver license (YAY!) and bought a boat and now he has to go to the gas station. In this assignment, you are asked to find out some important facts for the purchase.

Facts you already know:

- Gas tank is empty
- His boat holds 12 gallons of gas
- SpongeBob has \$70.5 cash

Inquire:

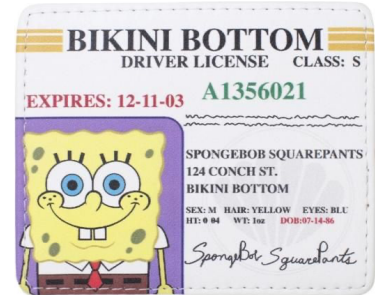
- Gas price per gallon
- How many gallons SpongeBob is buying?

Assume:

- Gas price per gallon is between \$4.5 — \$5.5
- Input user is correct
- They only sell full gallons (i.e. no 1.2 is allowed)

Bob requires your help to know:

- How much is the purchase?
- How much cash does Bob has left after payment? [Each penny is worthy 😊]
- What percentage of the tank is still empty? [Round it to 2 decimals]



After the data is shown, you will print this message at the end

```
***** "THANK YOU FOR YOUR PURCHASE" *****
Station Cashier:    YOUR NAME
```

Handwritten annotations for the code above:

- Red arrows pointing to the opening and closing double quotes of "THANK YOU FOR YOUR PURCHASE" with the label "double quotes".
- Red arrows pointing to the tab character before "YOUR NAME" in the second line with the label "tab".

Allowed things:

- Any arithmetic operators are all fine to use, such as +, -, *, /, %, and, or, >=, <, etc.
- The following data types, and their casting functions: int, float, string.
- These functions only: `input()`, `print()`, `round()`

Disallowed things:

- You may not import other modules (like math) or write your own functions.
- No branching (if statements), or loops (for/while), or any other feature we haven't yet covered in class.