HOMEWORK 7 - Modules CHALLENGING VERSION

PART I

Complete Part I of the Regular Homework but with these twists:

Add validation to the size attribute of Dog. If the program attempts to create a Dog object
with an invalid size (not 'small', 'medium", or 'large'), prompt the user a maximum of 5
possible times for a valid size. If they don't give a valid size after 5 tries, randomly select
a Dog size among the 3 valid sizes to assign to it.

PART II

Complete Part II of the Regular Homework but with these twists:

- Create a class called GuessingGame which has these properties (max_int, min_int, target_int, total_guesses) and at least these 3 methods (GuessInt, Congratulate, and ShowFailedMsg).
- Put the GuessingGame class in guessing_game.py and put guessing_game.py inside a directory called games which is your the week7 directory.
- In the week7 directory, create a file called game_main.py and import guessing game.py to play the game.

PART III

Complete Part III of the Regular Homework but with these twists:

- In your week7 directory, create a directory named shopping
- Inside the shopping directory, create a file named shopping cart.py
- Inside shopping_cart.py, create a class named ShoppingCart which has these properties (groceries (list), total_cost) and at least these 3 methods (ChastiseUnderAge, RemoveAlcoholicItems, CalculateTotalCost).
- Also inside the shopping directory, create a directory named utilities.
- Inside the utilities directory, create a file named <code>shop_values.py</code>. The <code>shop_values.py</code> module should have a single dictionary named <code>inventory</code> with all purchase-able items in the store. The keys are item names and the values are item prices.
- When shop_values.py is run by itself, it should iterate through the inventory dictionary printing out the name and price of each item.
- Also Inside the utilities directory, create a file named alcohol.py. The alcohol module should have a single list, alcoholic_beverages, that holds the 3 different alcohol strings ('beer, 'wine', 'liquor'). Import this module to check for alcohol.
- Back in week7, create a file named <code>shopping_main.py</code> which imports all necessary modules and runs the program as described in the assignment.