HOMEWORK 7 - Modules REGULAR VERSION

PART I

Inside your the **week7** directory, create a directory called **hw7_1**. Inside the **hw7_1** directory, create a file called <code>main.py</code> and a directory called **animals** which holds 2 python files (modules) - **dog.py** and **labrador.py**.

- Each of these modules should contain a single class named after the module itself (so the dog.py file should contain a Dog class and the labrador.py file should have a Labrador class).
- The Dog class should have these 2 properties:
 - o Name
 - Size ('small', 'medium', or 'large')
- The Dog class should have these 2 methods:
 - Bark return 'woof, woof! I'm a _____ sized dog'
 - Greet return 'My name is ____ and I LOVE YOU!'
- The Labrador class should extend the Dog class and override its Greet method so that it returns 'My name is ___ and I LOVE YOU and LOVE to Play!'

In the week7 directory, create a main.py file that creates a Dog object and a Labrador object. Call the objects' Bark and Greet methods to prove that your code works.

Before submitting, please make sure all executable code is encapsulated in a main() function as described in this week's notes.

PART II

Inside your week7 directory, create a file called <code>guessing_game.py</code>. In this file, create a guessing game program that:

- Prompts user for a lowest possible integer to guess
- Prompts the user for a highest possible integer to guess
- Generates a random integer between the lowest and highest possible integers
- Allows the user a maximum of 5 tries to guess that random integer
- If the user guesses before 5 tries, say "CONGRATULATIONS, THE NUMBER WAS ____!"
- If the user fails to guess it after 5 tries, just print out the integer with 'WA..WAAAA....THE NUMBER WAS _____'

Before submitting, please make sure all executable code is encapsulated in a main () function

as described in this week's notes.

PART III

Inside your week7 directory, create a file called shopper.py. This program:

- Prompts the user for their groceries one-by-one (5 items)
- Adds each grocery as a string to a list called shopping cart
- If the grocery 'beer', 'wine', or 'liquor' is found in shopping cart, then:
 - o Prompt the user for their birthday (not their age)
 - Check if they are 21 years of age or older
 - If they are too young, chastise them ("You are too young, son!") and remove the
 offending groceries from the list
 - o If they are of age, thank them "Thanks and Enjoy!"

Before submitting, please make sure all executable code is encapsulated in a main() function as described in this week's notes.

PART IV

Week 8 is very important and the class moves very fast so you will strongly benefit by reading ahead.

Please take 20 minutes to start pre-reading the notes for this coming week.