Python Project

Save/copy your python files into a folder; each part/program will have its own .py file. Zip the folder. Upload the zip file to Moodle. **Be sure to include your name and class at the top of your python scripts.**

Use python’s IDLE *or* your favorite IDE 😊

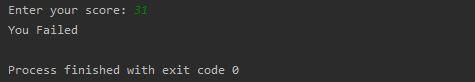
Part 1) Grades; If-Else

Create a script that will accept an input value (0 – 100) from a user, determine which letter grade that score will receive, and print() the results. When asking for input, be sure to let the user know what input parameters to enter.

* ‘A’ = 90+
* ‘B’ = 80 – 89
* ‘C’ = 70 – 79
* ‘D’ = 60 – 69
* ‘F’ = 0 – 59

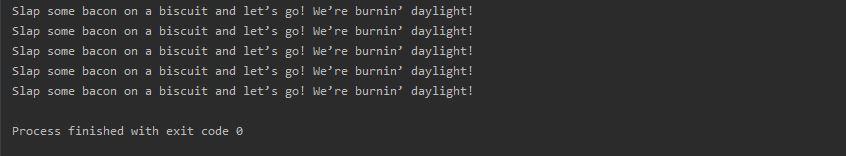






Part 2) While Loop

Create a while loop that will print the John Wayne quote **"Slap some bacon on a biscuit and let’s go! We’re burnin’ daylight!"** five times; each sentence on a separate line.



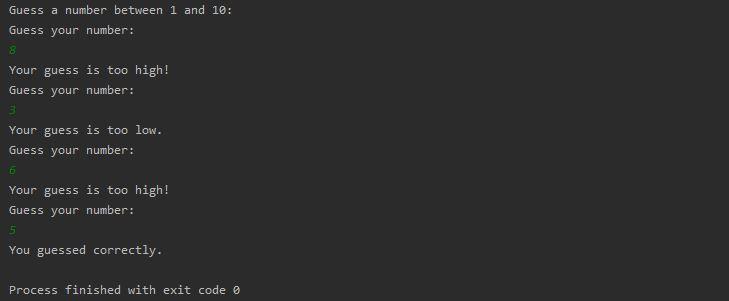
Part 3) For Loop and Array

Create a list array with 3 string values that are fruits. Print each letter of each fruit using nested for loops. Each letter will be on a new line and indented by one space; “ “. Each next word will start back at the left.



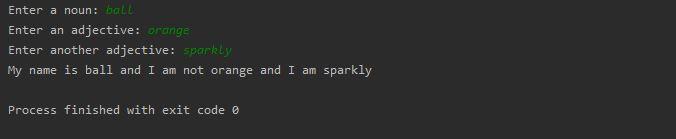
Part 4) Number Guessing Game

Create a script that will: generate a random integer between 1 and 10 (inclusive), ask for user input to guess that number. After each guess, notify the user if the answer is too high, too low, or correct.



Part 5) Madlibs

Look up what a madlib is if you are unsure. Create a sentence or two with various points for user input(nouns, adjectives, etc.), which is gathered from the user. Use a minimum of three user inputs. Print the final, completed sentence at the end.



Part 6) FizzBuzz

Create a script that will iterate over that numbers (10, 25) inclusive. For numbers that are even, print “Fizz”; for numbers that are divisible by 5, print “Buzz”; for numbers divisible by both 2 and 5, print “FizzBuzz”. The strings Fizz, Buzz, and FizzBuzz *will* replace the number being iterated.



Part 7) Area ***or*** volume of shapes

Ask the user for input regarding dimensions of a shape, calculate what the area ***or*** volume will be, and print what the area ***or*** volume of that shape will be. Choose **three** different shapes. You may need to **import math** depending on which formulas you want to use/make.

Python math documentation may be located at: <https://docs.python.org/3/library/math.html>

