

## COMP 101 – PROBLEM SOLVING WITH COMPUTING

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### LAB #3 (3-2)<sup>1</sup> [24 PTS]

#### PURPOSE:

To practice more Python coding, use of descriptive variable names, the proper use of CONSTANTS and proper documentation.

#### TASKS:

Write the following programs and please make sure each program contains this header:

Your name  
101FF or 101WW  
Lab3 (2-2)

at the top of your regular program description/documentation.

#### Program 1 [9]:

Write a well documented and formatted Python program (name it **ageCalc.py**) to

1. Prompt you for your name
2. Your age
3. And computes approximately how many days you have lived (we can just say 365 days a year, and not worry about leap years or partial years).  
(HINT: Use the “constant” `DAYS_IN_YEAR = 365` in your program)

#### Program 2 [9]:

See page 73, #5 – name this program **distance.py**

Addition to specification: Have the program prompt the user for the speed they are traveling and then use the same speed to display three nicely formatted lines of output indicating how far the car would have travelled in 5, 8 and 12 hours.

#### Program 3 [6]:

See page 74, #7 – name this program **mpg.py**

Be sure you test your programs before your instructor does :-)

#### DELIVERABLES

Three separate programs, **ageCalc.py**, **distance.py** and **mpg.py**, that are well documented and formatted (and functional too of course) placed into a folder. Submit this single zipped folder. (Remember, Python source code has to have a **.py** extension.)

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<sup>1</sup> The number in () corresponds to the assignment number on the Franklin University web page and should be used when you submit your assignment via dropbox for proper credit.