Homework 1

First Code

Due September 17, 2021 at 5pm

In this assignment, you'll write, execute, and debug real Python code. It's not exciting yet, but it's a start. The programs will get more interesting once you know how to do more things.

Learning Goals

1. Write some actual Python code.
2. Run code to produce results.
3. Identify and fix errors.

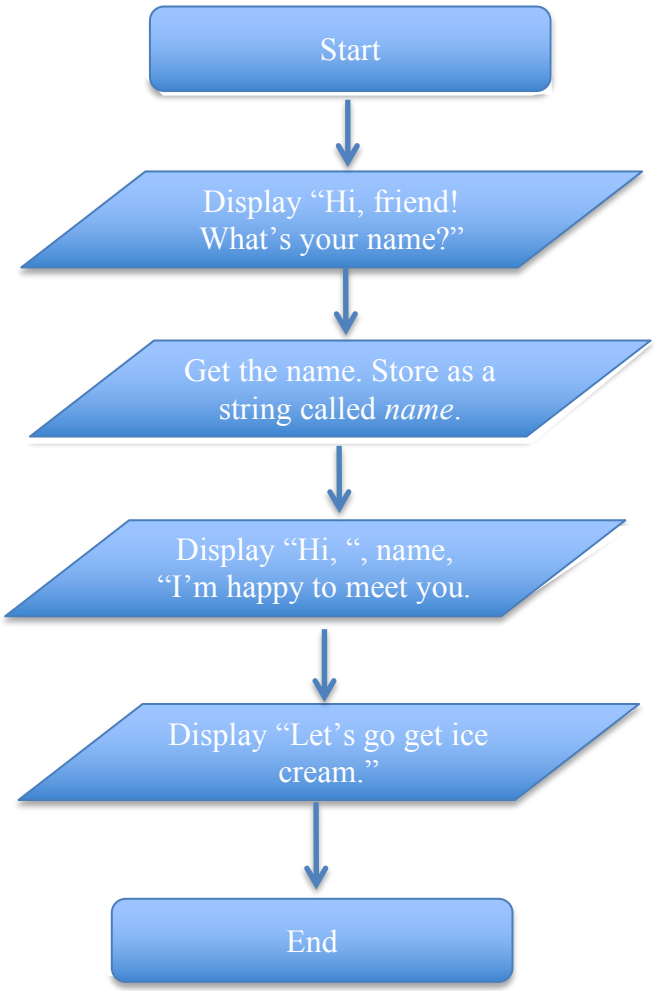
The Assignment

Write three small programs, each in its own file with the following names. Each file should have the following header comment (with the correct information):

```
# File: FILENAME.py
# Author: YOUR NAME
# Date: THE DATE
# Section: YOUR LAB SECTION NUMBER
# E-mail: YOUR_EMAIL@maine.edu
# Description:
# DESCRIPTION OF WHAT THE PROGRAM DOES
# Collaboration:
# COLLABORATION STATEMENT GOES HERE
```

Your collaboration statement should name any people other than COS 125 staff that you discussed this homework with or a statement that you discussed it with no one. Every program should have some collaboration statement. If you don't include a statement, we won't grade it.

hw1a.py:
Implement a simple interaction for getting to know a new person in your major using the following flow chart:



hw1b.py:

Translate the following pseudocode for buying ice cream for yourself and two friends into a Python program:

Display "How much is this ice cream bar?"
Get the price. Store in an integer variable named *price*.
Calculate total cost for three ice cream bars and tax at the sales tax rate of 5.5%. Store in integer variable named *total_cost*.
Display "I would like three bars. Here is $", total_cost, "."
Display "Thank you."

hw1c.py:

Write a short Python program to ask the user for a number seven times and tell them the smallest of their numbers. The request to the user should be “Enter a value:“, and “The smallest is:” should be used to present the smallest of their numbers at the end. Do not use any loops in your solution.

How to turn in your homework

Turn in each program in its own file. When turning in your own assignment make sure to add your last name to the file name (for example: Rheingans_hw1a.py).