**COMP 1800 – Fall 2016**

**Classwork 10: Multibranch Conditionals  
(16 points)**

Number of People: Teams of up to 2. If you work with a teammate, only one submission is needed. Be sure to put both of your names in a comment at the top of each source code file, as well as in the eCourseware notes box when you submit. Feel free to ask me or Swaroop for help!

Due: Oct. 20, by the end of class

Submission: Zip all of your Python script files into a single file, and submit that zip file to the appropriate folder on eCourseware.

Grader: TA, Swaroop Goli ([ssgoli@memphis.edu](mailto:ssgoli@memphis.edu)). Questions about grading? Please contact him first!

1. **(10 pts) Save your script file as: CW10Problem1.py**In script mode, write a Python program that guesses what kind of person you are based on your number of Facebook friends. The program should allow you to enter the number of friends, then display its assessment based on the following table:

|  |  |
| --- | --- |
| **Number of Facebook friends** | **Assessment** |
| 0 | Dangerously antisocial |
| 1-49 | Loner |
| 50-199 | Introvert |
| 200-499 | Average |
| 500 or more | Extrovert |

Example of what your program might look like when you run it (the underlined parts indicate what you type in as the program is running):  
  
How many Facebook friends do you have? 127  
My guess is that you are an introvert!

1. **(6 pts) Save your script file as: CW10Problem2.py**Download the code we wrote for the Robo-Bouncer example (posted on Oct. 18), and modify it so that the robot allows only people between ages 18 and 30 (inclusive) into the club. If the person is too young, the program should behave the same way it did before. If the person is too old, the program should display a different message. Use a multibranch conditional (**if-elif**) in your code.