**COMP 1800 – Fall 2016**

**Classwork 11: Basic Loops  
(19 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. 25, 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. **(4 pts) Save your script file as: CW11Problem1.py**Write a loop that prints the sentence “Repetition is fun!” 100 times.
2. **(5 pts) Save your script file as: CW11Problem2.py**Repeat the above problem, but this time make the loop also print the count of each repetition. The result should look something like this:  
     
   1 – Repetition is fun!  
   2 – Repetition is fun!  
   3 – Repetition is fun!  
   4 – Repetition is fun!  
     
   … etc.
3. **(4 pts) Save your script file as: CW11Problem3.py**  
     
   If you’ve ever watched the Simpsons, you know that the opening credits often involve Bart Simpson repeatedly writing a phrase on the chalkboard. One such phrase was **I will not "let the dogs out"**. Write a loop that displays this phrase an infinite number of times. (Remember that you can use **\"** within a string to indicate that you want to include a quote as part of the string.)
4. **(6 pts) Save your script file as: CW11Problem4.py**You’re somehow in charge of coming up with a cheer routine for a school of mathematically inclined students. Instead of the usual “2, 4, 6, 8, who do we appreciate?”, these students want to extend the first part to 2, 4, 6, 8, 10, 12, 14, and so on, all the way up to 28.  
     
   First, write a loop that displays the even numbers between 2 and 28 (inclusive), one number per line. After that loop ends, add a single print statement that displays “who do we appreciate?” Finally, nest all of that code into another loop that repeats the entire cheer 50 times.  
     
   When you run your program, you should see the output on the following page repeated 50 times.

2  
4  
6  
8  
10  
12  
14  
16  
18  
20  
22  
24  
26  
28  
who do we appreciate?