CS 201 Homework #6

Deadline: November 2nd, 9:00 pm. Save your code as lastname_homework6.py and submit on Edmodo.

Questions/Tasks:

1) Print all odd numbers between 10 (included) and 40 in decreasing order

2) Print all hundredths between 0.1 and 0.3 (included), for example, 0.10, 0.11, 0.12 and so on all the way to 0.30 (included).

3) Print all multiples of 7 between 0 and 100 (included). Use for i in range loop to iterate over the numbers between 0 and 100. Use while/break and modulus operator to identify and print the relevant numbers. Repeat the task but replace while/break with IF statement.

4) The following is a Python list that contains the names of Spring months:

months = ["March", "April", "May"]

Use for loop to print the name of each month (consult the classwork slides if you need help).
*(more difficult task; requires nested loops) Use for loop to print the name of each month and then the letters it consists of. For example:

March
M
a
r
c
h

5) Print all even numbers between 0 and 200 (included) which have a "7" in them. Hints: This task involves string conversion and multiple loops.

6) For this task you should use IF statement. Find all numbers between 0 and 1000 that include "0". You don't need to print these numbers. You need to count: How many such numbers are there? What is their sum? Your output should look like this:

Number 0: There are 182 numbers. The sum of these numbers is 91405.

7) Write a script to repeat the task above for all numbers between "0" and "9". Your output should look like this:

Number 0: There are 182 numbers. The sum of these numbers is 91405.
Number 1: There are 272 numbers. The sum of these numbers is 104896.
Number 2: There are 271 numbers. The sum of these numbers is 112887.
…And so on all the way to Number 9.