CSE 201, Fall 2016

Homework Set # 03

Due Thursday September 29th, 2016

Show all your work, and type your solution

Convert your text document to PDF .

If you are working as a team of 2 : Make sure to print team members' names, make sure that both team members upload the "same" file.

1. Read Chapter 3 of the Text. No summary is needed.
2. Type in the following, one line at a time, and pressing the "Enter/Return" key, at the IPython console and report its output. You do not have to take and screen shots for this, since there are too many commands. (Hint: Open an IPython console and once done, do a copy-and-paste to your homework text file)
    a. 18 + 3*5
    b. 158//3
    c. 158./3
    d. 158/3
    e. 23**3
    f. 19 - 3**2 +
    g. import random
    h. myInt = random.randint(1,9889)
    i. myInt + 321
    j. myInt = myInt + 100
    k. myInt/43
    l. myInt%43
    m. from math import floor, ceil, log
    n. floor(myInt/43)
    o. floor(myInt/43.)
    p. ceil(myInt/43)
    q. ceil(myInt/43.)
    r. log(12345, 31)
    s. s = 'This is My first Example in IPython.'
    t. s.find('is')
    u. s.find('s', 3)
    v. s.replace('is', 'at')
    w. len(s)
    x. s[3:8]
    y. s[:3]
    z. s[3:3]
    aa. s[5:]
    bb. s[:-1]
    cc. s[::-1]
    dd. print 'this is it.'

3. Write the following in Python, use the text editor in Spyder to enter your commands and run your script using the green button (run button) to test your program. Copy and paste your python code on your text document, take the screen shot of your program running on console (see example below) and paste it on your text document.

   Problem: Triathlon: The number of calories burned per hour by cycling, running, and swimming are 200, 475, and 275, respectively. A person loses 1 pound of weight for each 3,500 calories burned. Write a program to request the number of hours spent at each activity and then display the number of pounds worked off.
   Expected Sample Output:

```
>>> runfile('/Users/onsayse/CSE201_F16/HOMEWORK/Homework3/problem3.py', wdir=
'/Users/onsayse/CSE201_F16/HOMEWORK/Homework3')
Enter number of hours cycling: 2
Enter number of hours running: 3
Enter number of hours swimming: 1
Weight loss: 0.6 pounds
>>>
```