Homework1:

Read chapter 1 and do the following exercises

P1:

Let p be a bank’s interest rate in percent year. An initial Amount A has then grown to PTR / 100 after n years. Make a program for computing how much money 1000 euros have grown to after three years with 5% interest rate. Note : while using substituting the rate in R of the formula, use 5 and not 5%.

P2:

Transcribe the following equations into Python (without simplifying!), preserving order of operation with parenthesis as needed.

1.

2.

P3

Create a python program to compute the below equation. Hint: answer is 1.06066017178.

P4

Compute and print both roots of the quadratic equation x2-5.86 x+ 8.5408.

Hint: recall that the roots of a quadratic equation ax2+bx+c are x=

Hint: use the [math.sqrt](http://docs.python.org/library/math.html" \l "math.sqrt) function to compute the square root. (If you are using the Python interpreter, you need to first do import math.)

P5:

We define the following nested list:

Q=[ [’a’,’b’,’c’],[‘d’,’e’,’f’,’g’],[‘g’,’h’]]

1. Print the letter ‘e’.
2. Print the last element ‘h’.
3. Print the last two elements.
4. Print ‘a’,’d’,’g’.

Question 6:

X= set(1, 3, 8, 10, 14, 10, 20, 25)

Y=set(3,3,8,10,15,20,33,55,88)

Write a program to calculate the intersection, union, X-Y, Y-X using set operations.

How to submit:

1. Put all your program files into a folder named homework1
2. Zip it into a single file homework1.zip using the winrar program
3. Upload your submission file to <https://dropbox.cse.sc.edu/> since you enrolled in this course, you should have already got access to this above cse dropbox. This is NOT the same dropbox that we share files. Don’t put your homework into that CSCE206 folder as it can be seen by others.

Note:

* The dropbox for each homework will be closed after due date. So be sure to submit it before deadline.
* You are encouraged to do the other exercises to test your learning
* please name your program files as suggested by the book.
* You need to make your programs run without any error. When I grade it, I will check the results.
* Write your code with reasonable comments