Course: SE 412: Programming in Python
Instructor: Dr. Ziad Al-Sharif
Assignments: HW #1
Due Date: You must submit your solutions on JUST e-learning system by **Sunday, July 12th, 11:55 pm**

Submission:

- You must put all your work in one Folder named based on your Name and ID. Then compress this folder into one .rar or .zip file and upload your compressed file into the JUST *e-learning* system.

Requirements:

- Install Python on your machine, download it from: https://www.python.org/downloads/ Note: make sure to download Python 3.8.3 and make sure to add python to your system's "Environment Variables"

1. [10 Points] Write a python script named "q1.py" to evaluate all of the following expressions. Then fill the following table (submit both your q1.py and the Table below):

Expression	Result
`2 * 3 =`	
`2 ** 3 =`	
`2 + 2 * 5 =`	
`(2 + 2) * 5 =`	
`-4 - -4 - -4 =`	
`2 ** 2 ** 0 =`	
`(2 ** 2) ** 0 =`	
`4 // 2 =`	
`5 // 2 =`	
`5 // 2.0 =`	
`5.5 // 2.5 =`	
`4 / 2 =`	
`5 / 2 =`	
`5 / 2.0 =`	
`5.5 / 2.5 =`	
`5 % 2 =`	
`6 % 2 =`	
`8 % 3 =`	
`6.2 % 4 =`	
`-5 % 4 =`	

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2. [10 Points] Write a python script named "q2.py" to evaluate all of the following expressions. Then fill the following table (submit both your q2.py and the Table below):

Expression	Result
`3 < 5 =`	
`3 < 5 <= 10 =`	
`10 > 5 > 2 =`	
`10 > 5 > 7 =`	
`3 < 5 and 5 < 10 =`	
`not(True) =`	
`not(0) =`	
`not(True and False) =`	
`bool(3+4) and True =`	
`not(True) =`	
`not(1) =`	
`True and False =`	
`True or False =`	
`not True =`	
`not not False =`	
`not False and True =`	
`not (False or True) =`	
`True and False and True =`	
`True or (False and True) =`	
`False or ( -5 % 2 == 1) =`	
`1 and 2 =`	
`3 > 2 > 0 =`	
`1 and 0 =`	
`bool(1 and 2) =`	
`bool(5 and 0) =`	

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3. [10 Points] Write a python script named "q3.py" to evaluate all of the following expressions, then fill the following table (submit both your q3.py and the Table below):

Expression	Result
`float(4) =`	
`int(5.3) =`	
`float("4") =`	
`int("5") =`	
`int(True) =`	
`float(True) =`	
`int(False) =`	
`float(int(5.3)) =`	
`int(5.7) =`	
`float(7) // 4 =`	
`int(7 / 4) =`	
`6.2 and False =`	
`True and 6.2 =`	
`type(4.5) =`	
`type(3) =`	
`type(True) =`	
`type(False) =`	
`type(not 1) =`	
`type(not(0)) =`	
`type(True and 3) =`	
`type(None) =`	
`type([]) =`	
`type(()) =`	
`type({}) =`	
`type(NotImplemented) =`	
`type(bool()) =`	
`bool(10) =`	
`bool(0) =`	
`bool(-5) =`	