CSE101, LAB 1: GETTING STARTED

First Name:	Last Name:	Roll Number:	_			
The purpose of this assignment is to get you started with Python immediately. You will have hands on experience with Python expressions.						
In addition to this har	ndout, you need to download t	two files from Backpack's resource page.				
For today's lab you w	rill with one file.					
lab1_01.py (F	ython script)					
Create a new direct directory.	ory on your hard drive and	name it as lab01 and copy the file in the	nat			
	• •	here you have to write answer for a giv should show your written answers to your l				
The instructor may as	The instructor may ask you a few questions to make sure you understand the material.					
•	•	execute "scripts", or files that contain Pythly, typing in just one command at a time.	าดท			
1. The file lab1_01.p script, into the comm		you type python, followed by the name of	the			
python lab1_0)1.py					
and hit Return. Does	anything happen?					
2. Now open up the f	ile lab1_01.py with some edito	or.				
Delete the # character lab1_01.py". What yo	_	gain, run the script hello1.py by typing "pyth	าดท			

3. To run Python interactively, type the word python by itself and hit Return. You will see several lines of text followed by the symbol >>>. This is the Python prompt. The purpose of the >>> is to let you know that you are currently running Python, and that you are no longer working with files and folders.

At the Python prompt, type

and hit Return (do not type the >>>). What happens?

4. Given radius of circle as 2, write program on console to print area of circle.

2. Python Expressions

The following pages have a list of expressions. For each expression, first compute the expression in your head, without using Python. Write down what you think the value is in the second column. If you have no idea, write "?".

Next, use Python to compute the same expression. Write down Python's result in the third column. If the two values are different, you should try to figure out why Python gave the answer that it did. Come up with a reasonable explanation and put it in the final column. In this assignment, you are not graded on being correct so make your best guess at what is happening. For this assignment you can take help of lab instructor

1. Int and Float Expressions

Expression	Expected value	Calculated Value	Reason for calculated value
2 * 4			
3 ** 2			
5 + 7 * 5			
(5 + 2) * 6			
-544			
2 ** 3 ** 0			

(2 ** 3) ** 0		
6/3		
7 / 4		
7.0 / 4		
7 / 4.0		
16.0 * 0.5		
16.0 ** 0.5		
16 % 2		
17 % 2		
6.2 % 4		

2. Types and Casting

Expression	Expected value	Calculated Value	Reason for calculated value
float(6)			
int(6)			
int(7.3)			
float(int(7.3))			
int(-7.3)			
int(-7.7)			
float(9) / 4			
float (9/4)			

3. Comparisons and bool Expressions.

Expression	Expected value	Calculated Value	Reason for calculated value
4 < 5			
4 < 5 and 5 < 4			
True			
true			
True and False			
True and True			
True or False			
not False			
not not True			
not (False and True)			
True or (False and True)			
(6 / 0 == 1) and False			
False and (6 / 0 == 1)			