

Class Activity

A. Using command shell:

Activity 1: Python as a calculator

Open Python 3.5 (32 bits) at the Program.

At the prompt >>>, enter the following instruction and hit return. Write down the answer appear on the screen and the meaning of the operation onto the table below:

	Instruction	Answer	Meaning
1	5 + 5		+ means
2	10 - 3		- means
3	5 * 4		* means
4	2 ** 3		** means
5	46 / 5		/ means
6	46%5		% means modulus. It gives the remainder of a division sum.
7	46//5		// is called floor division which gives the integral part of the quotient.
8	-46//5		

Compute the following mathematical expressions using python and write down its returned value:

	Mathematical expressions	Your answer	Python's answer	Observation
A	$18 - 6 \times 2 + 4^2$			Does it follow the mathematical order of operations? <input type="checkbox"/>
B	$7 \times [(20 - 8) - (16 + 2)]$			Does it follow the mathematical order of parentheses? <input type="checkbox"/>

B. Writing Python Program

Many developers use *integrated development environments* (IDEs), instead of command line. An IDE includes editors, debuggers, and other programming aids in one comprehensive program.

An IDLE is a simple Python integrated development environment available for Windows, Linux, and Mac OS X. IDLE has a built in editor.

On IDLE, create NEW FILE. Enter the following program, run the program (RUN MODULE) and save it as firstpyprogram.py

```
a = 4
b = 8
p = a*b
Print (p)
```

Activity 2: My First Program

- i. Write a python program, called square16, which prints out the square of 16.
- ii. How can I improve the program?

Program	Improvement

Activity 3: Input and Output Statement

Write a python program to compute the square of any number given by the user. Then print out its square value with user friendliness. Save your program.