

420-PRO-LCU Programming in Python - Lab2

Goals for this lab:

- Introduction to python and some hands-on practice.
- introduce tokens and variable names. What is valid and what is not.
- Introduce a few of the Python 3 operators.

Part 1 - short answers - To be done manually

Just write the number of each question followed by the answer. You can write directly on the .PDF or submit a text document.

1. Which of the following items would be a valid variable name in Python (list the letters of the correct choices in your answer)?

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|-------------|---------------------|
| (a) FALSE | (e) _0_ |
| (b) __xyzzz | (f) Percent_Correct |
| (c) Cdn\$ | (g) 3rdClass |
| (d) while | (h) input |

2. Assuming that `x` and `y` are variable names that have valid numeric values assigned to them, which of the following are syntactically legal Python 3 statements or expressions?

- | | |
|-------------------------------|-----------------------------|
| (a) <code>x = y</code> | (f) <code>x *= 5</code> |
| (b) <code>x = - 5</code> | (g) <code>4 = x</code> |
| (c) <code>2 == x</code> | (h) <code>w = 08</code> |
| (d) <code>x + y = 2000</code> | (i) <code>w = .2 e10</code> |
| (e) <code>z = y - x</code> | (j) <code>w = .2e 10</code> |

3. Assume that `ID` is a variable name that contains your student ID number stored as an integer (e.g. `ID=123456`). What is the output of each code sequence? *You must show the manual steps (calculations) that you followed to get to the answer. Do not resort to IDLE to get an immediate answer. However, you can check your answers afterwards!*

- | | |
|---|--|
| (a) <pre>print(ID / 10)</pre> | (e) <pre>print(ID * 1.0 // 3)</pre> |
| (b) <pre>print(ID // 10)</pre> | (f) <pre>print(ID - 100.0)</pre> |
| (c) <pre>print(-ID // 10)</pre> | (g) <pre>b = (ID % 2) != 0 print(b)</pre> |
| (d) <pre>print(ID % 1000 - 10)</pre> | |

Submission

Upload your answers to Omnivox. Be sure to submit a *single* file containing all of your work.