

Lab 0 - Key Points

- 1) Hello! I'm Michelle - your TA for 61A! :) (michelld@berkeley.edu)
- 2) Register for an account
- 3) Install Terminal & learn some basic ways to use it! (cd, ls, etc.)
- 4) Type python3 in Terminal! --> it launches the interpreter!

• Primitive Expressions

- only 1 step to evaluate

e.g.

```
>>> 3.5
3.5
```



```
>>> True
True
```

• Assignment Statements

- An assignment statement consists of a name and an expression. It changes the state of the program by evaluating the expression and *binding* its value to the name in the current frame.

```
>>> a = (100 + 50) // 2
# Nothing is displayed...
# because the return value of
# this evaluated expression is
# assigned to the variable a.
>> a
75
```

(Note: A blue arrow points from the handwritten note "this is a comment tho!" to the line "a = (100 + 50) // 2".)

• Modulo

• (True) division
or lifetime sign

» 79.2

$$\begin{array}{r} 3 \\ \overline{)25} \\ -2 \\ \hline 5 \\ -5 \\ \hline 0 \end{array}$$

1 ← the remainder
is the answer

''' + ↴ we use
2.33333333335

• Floor division

(think: bring it to the floor = bring it down = round it down)

>>> 3 // 2

| | # 1.5 rounds down

• Ammending Assignment values

>> $x = 2 + 3 // 2$

Question: what is x ?

{ Ans: 3 → PEDMAS / BODMAS is used }

; Look at RHS first... evaluate this first

; Step1: >> $x = 2 + \boxed{3 // 2}$

; Step2: >> $x = 2 + \boxed{1}$

; Step3: >> $x = 3$ assign the val
of 3 to x !

>> $x + 2$

" " ~ ~ ~ is displayed here?



what gets output now.

Ans: 5

>>> x



what gets displayed here?

Ans: 3 → no new value was assigned to x ...

- 4) Try out the assignment given in lab - use your text editor!
- 5) PASS THE AUTOGRADER TESTS!
- 6) SUBMIT THE ASSIGNMENT WITH OK!
- 7) VERIFY THAT YOU HAVE SUBMITTED THE ASSIGNMENT --> You can follow the link that Ok printed out to see your final submission, or you can go to okpy.org.
- 8) Yay!!! You just submitted your first assignment!! Now go enjoy the rest of your day and get to know your fellow classmates!

pairing up & helping each other with this lab
is a good idea! Two heads are better
than one (except on exams !!) !