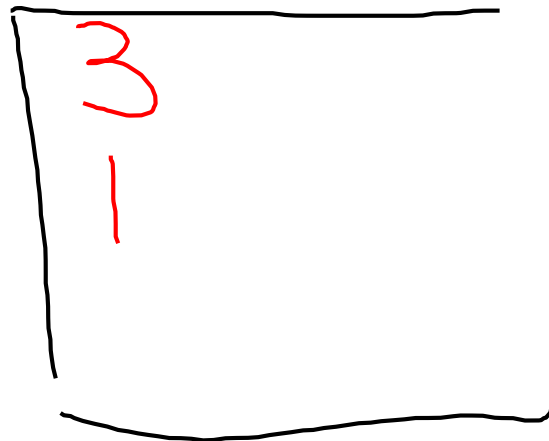


Lists – Day 2

- Students will create lists, access, and traverse elements within the list.
- Students will perform list operations including insertion, concatenation, repetition, slices, and deletion.
- Students will be introduced to list methods including append, insert, pop, sort, reverse, index, count, and remove.
- Students will explore the Python API.
- Students will use lists to model several real-world situations.

$\frac{x}{1}$

$\frac{y}{3}$



What will be displayed by the following code?

$y = 7$
 $x = 1$

def f1():

· $y = x + 2$

print(y)

return y

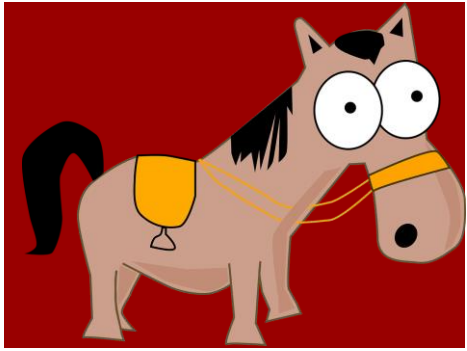
f1()

print(x)

print(y)

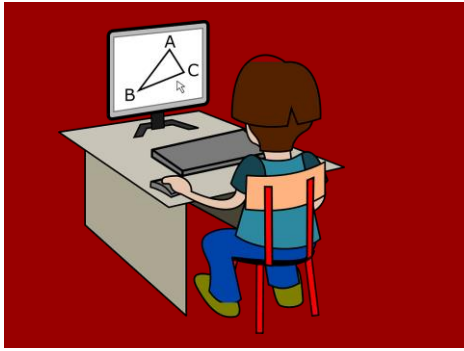
$z = f1()$

Track the values of x and y throughout the program to verify.



Horse Barn Problem

- `barn[barn.index(None)] = 'Toby'` 1, 4
- Create a list representing a horse barn containing 4 horses in 6 stalls `barn = ['Sea Biscuit', None, None, None, None, None]`
 - Use the built in constant `None` for the empty stalls
 - Find an empty stall `print(barn.index(None))` *print location 2 3 4*
 - If there is an empty stall place 'Toby' ~~`barn.insert(barn.index(None), 'Toby')`~~ *5*
 - Check to see if a particular horse is in the barn or if she is out to pasture



Project

- Expectations
- Deadline (may have to do as homework)
- Schedule
- Time to Work