

Exercise 3 – Thinking About Code

CS 111

due September 6, before class

1. What would Python give you for the value of $8 / 2 * (2 + 2)$?

16.0

2. Give Python pseudocode (or just a Python expression/statement) for truncating a floating point number to two places past the decimal point. For example, given input 3.141592653589, it should return 3.14. Only use math operations and casting.

```
urdata_1 = float(input("Type number "))
new_urdata_1 = int(urdata_1)
urdata_2 = urdata_1*100
new_urdata_2 = int(urdata_2 - new_urdata_1*100)

txt_1 = str(new_urdata_1)
txt_2 = str(new_urdata_2)
res = txt_1 + "." + txt_2
print(res)
```

3. Look at the code below. It is intended to give the user both the integer part and remainder when dividing 100 by some input number. However, it currently does not work! Identify all the problems you can see in this code.

1. The variable 'y' is receiving a string value, which is an unsupported operand type for doing divisions.
2. The variable 'integerPart' stores a decimal, not an integer.
3. In line 7, it's trying to concatenate the strings with the variables 'integerPart' and 'remainder', which are not string values.