Tutorial 2

CSE101 : Introduction to Programming

(Monsoon 2019)

August 19/20, 2019

Topics to be covered:

- Data Types in Python
- Operations and Precedence
- Variables and assignments

1. When should we use “‘”” (triple quotes) to define strings?
2. Assuming (name = “John Smith”)
    a. What does name[1] return?
    b. What about name[-2]?
    c. What about name[1:-1]?
    d. How to get the length of name?
3. What is the result of this expression: “*” * 10
4. What is the difference between **10 / 3** and **10 // 3**?
5. What is the result of 10 ** 3?
6. Given (**x = 1**), what will be the value of after we run (**x += 2**)?
7. What is the result of **float (1)**?
8. What is the result of **bool (“False”)**?
9. What are the falsy values in Python?
10. What is the result of **10 == “10”**?
11. What is the result of **“bag” > “apple”**?
12. What is the result of **not (True or False)**?”
13. Under what circumstances does the expression **18 <= age < 65** evaluate to True**?**
14. What is the difference between (3 * 7 + 2) * 0.1 and 3 * 7 + 2 * 0.1? Show how the expression is evaluated by placing appropriate brackets.
15. What is the difference between “xyz” + “45” and “xyz” + 45? What is the output?
16. What does 3 ** 2 ** 3 evaluate to? Show the brackets used for precedence.

Tutorial 2 - solutions

Q1: For multiline string literal.
Eg. """Hello
World"""

Q2: a) o
b) t
c) ohn Smith
d) len(name)

Q3: **********
Q4: Float division, Integer Division
Q5: 1000
Q6: 3
Q7: 1.0
Q8: 1
Q9: empty string, empty array, 0, None
Q10: False
Q11: True
Q12: False
Q13: [18,65)
Q14: 2.3, 21.2
Q15: xyz45, error
Q16: 6561