Assignment No.02

Basics

- What is an expression?
- What is a syntax error?
- What is PEP8?
- What does a linter do?
- What is the result of this expression: "*" * 10
- What is CPython?
- How is CPython different from Jython?
- How is CPython different from IronPython?

Primitive Types

- What is a variable?
- What are the primitive built-in types in Python?
- When should we use "" (tripe quotes) to define strings?
- Assuming (name = "John Smith"), what does name[1] return?
- What about name[-2]?
- What about name[1:-1]?
- How to get the length of name?
- What are the escape sequences in Python?
- What is the result of f''(2+2)+(10%3)"?
- Given (name = "john smith"), what will name.title() return?
- What does name.strip() do?
- What will name.find("Smith") return?
- What will be the value of name after we call name.replace("j", "k")?
- How can we check to see if name contains "John"?
- What are the 3 types of numbers in Python?

Control Flow

- What is the difference between 10/3 and 10/3?
- What is the result of 10 ** 3?
- Given (x = 1), what will be the value of after we run (x += 2)?
- How can we round a number?

- What is the result of float(1)?
- What is the result of bool("False")?
- What are the falsy values in Python?
- What is the result of 10 == "10"?
- What is the result of "bag" > "apple"?
- What is the result of not(True or False)?
- Under what circumstances does the expression 18 <= age < 65 evaluate to True?
- What does range(1, 10, 2) return?
- Name 3 iterable objects in Python.

Functions

- What is the difference between a parameter and an argument?
- All functions in Python by default return ...?
- What are keyword arguments and when should we use them?
- How can we make a parameter of a function optional?
- What happens when we prefix a parameter with an asterisk (*)?
- What about two asterisks (**)?
- What is scope?
- What is the difference between local and global variables?
- Why is using the global statement a bad practice?