## Key Concepts:

## Warning: this list is not comprehensive!

- Comments: #
- Data Types: Integer, String, Float, Boolean, type()
- Python Interactive Shell vs Python Script
- Basic Input and Output: input(), print()
- Debugging & Errors: Syntax, Runtime, Indentation, Type, Name, Value
- Syntax vs Semantics: Logic Errors
- Valid Identifiers & Reserved Words
- Parts of a Computer: I/O Devices, Storage, Memory, Processor, Clock
- Arithmetic Operators: +, -, \*, /, //, %, \*\*
- Compound Operators: +=, -=, \*=, /=
- Equals Operators: =, !=, ==
- Order of Precedence: ( ), \*\*, -, \* / // %, + -, > < ==, =
- Escape Characters: \\, \', \", \t, \n
- Python Modules: import, if name == ' main ':

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- 1. What does type ("2839.0") return?
- 2. What does the following print?

```
mystery = "multiple choice"
print("mystery")
```

3. If the following code is run and the user inputs 3897, then what does type(x) return?

```
x = input("Input anything: ")
```

- 4. Of the data types below, which combination cannot be added together?

  Integer, Float, String, Boolean
- 5. Why does the following code not execute?
  #print(and)
- 6. What is a good comment and why are they important?
- 7. What are the pros and cons of the Python Shell vs Python Script?
- 8. What is a problem that may arise from the line of code given below?
  userInput = int(input("Enter a number: "))

9. Use the following lines of code to evaluate the expressions given below. Write "ERROR" if an error would be produced.

```
a = 2
b = 4
x = "candy"
y = 3.0
z = 1.5

A) print(type(b / a))
B) print(x * y)
C) print(str(a) + str(b))
D) print(b ** a)
E) print("x")
F) print(int(z))
```

G) print(float(b) // a)