# Python Review and Code Challenges

Unit 2 Lab 1





#### **Python Data Structures**

- Strings
- Lists
- Tuples
- Dictionaries

### **Python Strings**

mystr = "dog"

- Immutable
- Homogenous
- Indexed from 0 to length -1
- Can be sliced with []
- Ordered and Iterable



## Python Lists

mylist = [1,"a",[a,b,58]]

- Mutable
- Heterogenous
- Indexed from 0 to length -1
- Can be sliced with []
- Ordered and Iterable



#### **Python Tuples**

mytuple = (54, 12, 19)

- Immutable
- Heterogenous
- Indexed from 0 to length -1
- Can be sliced with []
- Ordered and Iterable



#### **Python Dictionaries**

mydict = {"bill":28,"sam":99}

- Mutable
- Heterogenous
- Indexed with key-value pairs
- Keys must be immutable
- Unordered but Iterable



#### **Python Data Structures**

• Strings - methods

find(), capitalize(), islower(), join(), split(), strip(), encode() + more

• Lists - methods

append(), extend(), remove(), index(), pop(), sort(), reverse() + more

- Tuples methods count(), index()
- Dictionaries methods

get(), keys(), pop(), update(), copy(), clear(), values() + more



INSTITUTE FC

# Other Python highlights of Lab 1

- keywords in
- loops for, while, enhanced for
- conditionals if, elif, else
- boolean operators- and, or, not

