Python

List Data Types

Albert Zaqaryan Lesson 14

numbers =[34, 56, -456, 7.56, -2.34] print(numbers[1])

Negative indexing

numbers =[34, 56, -456, 7.56, -2.34] print(numbers[-1])

Change item Value

```
fruits = ['banana', 'apple', 'cherry']
    fruits[1] = 'kiwi'
    print(fruits)
```

len()

fruits = ['banana', 'apple', 'cherry']

print(len(fruits))

append()

fruits = ['banana', 'apple', 'cherry']
 fruits.append('orange')
 print(fruits)

insert()

remove()

```
fruits = ['banana', 'apple', 'cherry']
    fruits.remove('apple')
    print(fruits)
```

```
pop()
```

del

extend()

```
fruits = ['banana', 'apple', 'cherry']

numbers = [34, 56, -456, 7.56, -2.34]

fruits.extend(numbers)

print(fruits)
```

sort()

```
numbers= [34, 56, -456, 7.56, -2.34]
numbers.sort()
print(numbers)
```

reverse()

numbers [34, 56, -456, 7.56, -2.34] numbers.reverse() print(numbers)

Equality vs Similarity

```
list1 = [1, "Text", (5.6, 7.7)]
list2 = [1, "Text", (5.6, 7.7)]
print(list1 == list2) # True
print(list1 is list2) # False
```

List Methods

Reverses the order of the list

Sorts the list

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reverse()

sort()

Python has a se	et of built-in methods that you can use on lists.
Method	Description
append()	Adds an element at the end of the list
clear()	Removes all the elements from the list
copy()	Returns a copy of the list
count()	Returns the number of elements with the specified value
extend()	Add the elements of a list (or any iterable), to the end of the current list
index()	Returns the index of the first element with the specified value
insert()	Adds an element at the specified position
pop()	Removes the element at the specified position
remove()	Removes the item with the specified value

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2. Wiite a Python piogiam to multiplies all the items in a list.

3. Write a Python program to get the largest text from a list.

4. Write a Python program that have two lists and returns True if they have at least one common member.