```
In [1]: # List Exploration:
In [2]: fruits = ["apple", "banana", "cherry"]
         print(fruits[1])
         banana
In [3]: fruits = ["apple", "banana", "cherry"]
         fruits[0] = "kiwi"
In [4]: print(fruits)
         ['kiwi', 'banana', 'cherry']
In [5]: fruits = ["apple", "banana", "cherry"]
         fruits.append('orange')
In [6]: print(fruits)
         ['apple', 'banana', 'cherry', 'orange']
In [7]: fruits = ["apple", "banana", "cherry"]
         fruits.insert(1, "lemon")
In [8]: print(fruits)
         ['apple', 'lemon', 'banana', 'cherry']
In [9]: fruits = ["apple", "banana", "cherry"]
         fruits.remove("banana")
In [10]: print(fruits)
```

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['apple', 'cherry']
In [11]: fruits = ["apple", "banana", "cherry"]
         print(fruits[-1])
         cherry
In [12]: fruits = ["apple", "banana", "cherry", "orange", "kiwi", "melon", "mang
         print(fruits[2:5])
         ['cherry', 'orange', 'kiwi']
In [13]: fruits = ["apple", "banana", "cherry"]
         print(len(fruits))
         3
In [ ]:
In [ ]: # Exploring Dictionaries:
In [14]: car ={
           "brand": "Ford",
           "model": "Mustang",
           "year": 1964
         print(car.get("model"))
         Mustang
In [15]: car ={
           "brand": "Ford",
           "model": "Mustang",
           "year": 1964
         car['year'] = 2020
```

```
In [16]: print(car)
         {'brand': 'Ford', 'model': 'Mustang', 'year': 2020}
In [17]: car ={
           "brand": "Ford",
           "model": "Mustang",
           "year": 1964
         car['color']='red'
In [18]: print(car)
         {'brand': 'Ford', 'model': 'Mustang', 'year': 1964, 'color': 'red'}
In [19]: car = {
           "brand": "Ford",
           "model": "Mustang",
           "year": 1964
         car.pop('model')
Out[19]: 'Mustang'
In [20]: car = {
           "brand": "Ford",
           "model": "Mustang",
           "year": 1964
         car.clear()
In [21]: print(car)
         {}
In [ ]:
```

```
In [22]: # Exploring Sets:
In [23]: fruits = {"apple", "banana", "cherry"}
         if "apple" in fruits:
             print("Yes, apple is a fruit!")
         Yes, apple is a fruit!
In [24]: fruits = {"apple", "banana", "cherry"}
         fruits.add('orange')
In [25]: print(fruits)
         {'cherry', 'banana', 'orange', 'apple'}
In [26]: fruits = {"apple", "banana", "cherry"}
         more fruits = ["orange", "mango", "grapes"]
         fruits.update(more fruits)
In [27]: print(fruits)
         {'apple', 'grapes', 'banana', 'mango', 'cherry', 'orange'}
In [28]: fruits = {"apple", "banana", "cherry"}
         fruits.remove('banana')
In [29]: print(fruits)
         {'cherry', 'apple'}
 In [ ]:
 In [ ]: #Exploring Tuple:
In [30]: fruits = {"apple", "banana", "cherry"}
```

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fruits.discard('banana')
In [31]: print(fruits)
         {'cherry', 'apple'}
In [32]: fruits = ("apple", "banana", "cherry")
         print(
         fruits[0]
         apple
In [33]: fruits = ("apple", "banana", "cherry")
         print(
         len(fruits)
         3
In [34]: fruits = ("apple", "banana", "cherry")
         print(fruits[-1])
         cherry
In [35]: fruits = ("apple", "banana", "cherry", "orange", "kiwi", "melon", "mang
         print(fruits[2:5])
         ('cherry', 'orange', 'kiwi')
In [ ]:
In [36]: # Exploring String:
In [37]: x = "Hello World"
         print(len(x))
```

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In [39]: txt = "Hello World"
         x = txt[0]
         print(x)
         Н
In [41]: txt = "Hello World"
         x = txt[2:5]
         print(x)
         llo
In [42]: txt = " Hello World "
         x = txt.strip()
         print(x)
         Hello World
In [44]: txt = "Hello World"
         txt = txt.upper()
         print(txt)
         HELLO WORLD
In [45]: txt = "Hello World"
         txt = txt.lower()
         print(txt)
         hello world
In [47]: txt = "Hello World"
         txt = txt.replace("H", "J")
         print(txt)
         Jello World
```

```
In [48]: age = 36
    txt = "My name is John, and I am {}"
    print(txt.format(age))

My name is John, and I am 36

In [ ]:
```