

python-day2-today

```
# -*- coding: utf-8 -*-
```

```
"""Untitled1.ipynb
```

Automatically generated by Colab.

Original file is located at

https://colab.research.google.com/drive/1I4x4l8R-vXqjj4E8ndFOhbyO_6YGXzzU

#METHODS -

methods are functions that belong to an object and can be used to perform operations or manipulate the data within that object. They are essentially functions defined inside a class and can be used to perform tasks related to the object they are associated with. When a method is called on an object, it can access and modify the internal state of the object.

#LIST

```
# 1- .append( )
```

```
"""
```

```
#example1
```

```
fruits = ["apple", "banana"]
```

```
fruits.append("kiwi")
```

```
print(fruits)
```

```
#example2
```

```
numbers = [4,5,6,4,8,8]
```

```
numbers.append(9)
```

```
numbers
```

```
"""#2. .extend( ) """
```

```
#example
```

```
fruits = ["apple", "banana"]
```

```
fruits.extend(["kiwi", "orange", "watermellon"])
```

```
fruits
```

```
#example2
```

```
numbers = [1,2,3,4,5,6]
```

```
numbers.extend([9,8,7])
```

```
numbers
```

```
"""#3. .insert ( )
```

```
Insert an element at a specified position in the list  
"""
```

```
fruits = ["apple", "banana"]  #[0 , 1 , 2, .....] positions
```

```
fruits.insert(1, "kiwi")
```

```
fruits
```

```
fruits.insert(0, "cherry")
```

```
fruits
```

```
numbers = [1,2,3]
```

```
numbers.insert(0, 0)
```

```
numbers
```

```
"""#4. .remove()"""
```

```
fruits
```

```
fruits.remove("banana")
```

fruits

numbers =[1,2,3,4,5,6]

numbers.remove(2)

numbers

"""#5. .pop()

Removes and return the element at the specific position.

"""

fruits

fruits.append("banana")

fruits

fruits.pop(1)

fruits

"""#6. .clear()

removes all the element from the list

"""

fruits

fruits.clear()

fruits

type(fruits)

"""#7. .index()"""

fruits = ["banana", "apple", "kiwi", "cherry"]

fruits.index("apple")

```
fruits.index("kiwi")
```

```
index = fruits.index("kiwi")
```

```
index
```

```
"""#8. . count()
```

It returns the number of times a specified value appears in the list

```
"""
```

```
fruits
```

```
fruits.count("apple")
```

```
list1 = [1,2,3,4,5,6,4,1,2,3,1,2,4,5,6,4,1,2,3,1,1,4,5,6,3,2,1,1,1,2,2,3,2,3,4,5]
```

```
list1.count(1)
```

```
list1.count(2)
```

```
count_of_one = list1.count(1)
```

```
count_of_one
```

```
"""#9. .sort()"""
```

```
fruits
```

```
fruits.sort()
```

```
fruits
```

```
list1
```

```
list1.sort()
```

```
list1
```

```
print(list1)
```

```
"""#10. reverse ()"""
```

```
fruits
```

```
fruits.reverse()
```

```
fruits
```

```
list1.reverse()
```

```
print(list1)
```

```
"""#11. .copy()"""
```

```
fruits
```

```
fruits_copy = fruits.copy()
```

```
fruits_copy
```

```
"""#12. list() constructor
```

```
use to create a list
```

```
"""
```

```
data = ("apple", "banana", "kiwi")
```

```
type(data)
```

```
data
```

```
new_list = list(data)
```

```
new_list
```

```
type(new_list)
```

```
"""## Tuple Methods
```

```
#1. count()
```

```
"""
```

```
fruits
```

```
fruits = ("apple", "banana", "kiwi", "apple")
```

```
type(fruits)
```

```
fruits.count("apple")
```

```
list = (4,5,6,4,1,2,3,4,1,2,3,1,2,4,1,2,3,4,1,1)
```

```
list.count(1)
```

```
"""#2. index()"""
```

```
fruits
```

```
fruits.index("kiwi")
```

```
"""#3. concatenation"""
```

```
touple1 = (1,2,3)
```

```
touple2 = (4,5,6)
```

```
new_touple = touple1 + touple2
```

```
new_touple
```

```
"""##3. SET { }
```

```
#1. .add( )
```

```
"""
```

```
set1 = {"football", "cricket"}
```

```
dictonory1 = {"football": "a game play in ground with big ball", "cricket": "a game played with  
tennise ball"}
```

```
dictonory1["football"]
```

```
set1
```

```
set1.add("tennise")
```

set1

```
"""#2. .remove()"""
```

set1

```
set1.remove("football")
```

set1

```
set1.remove("chess")
```

```
"""#3. discard ( )"""
```

removes the specified item without raising an error if the item is not found
"""

set1

```
set1.discard("chess")
```

```
"""#4. pop( )"""
```

```
fruits = {"apple", "banana", "cherry", "orange"}
```

```
fruits.pop()
```

```
fruits.pop(1)
```

fruits

```
"""#5. clear ( )"""
```

```
fruits.clear()
```

fruits

```
"""#6. update ( )"""
```

```
set1 = {1,2,3}
```

```
set2 = {4,5,6}
```

```
set1.update(set2)
```

```
set1
```

```
set2
```

```
"""#7. copy ()"""
```

```
set1
```

```
copy_of_set1 = set1.copy()
```

```
copy_of_set1
```

```
"""## Dictinories {key :value}
```

```
#1. .clear()
```

```
"""
```

```
person = {"name":"harsh", "age":25, "city": "seloo"}
```

```
person2 = person.copy()
```

```
person.clear()
```

```
person
```

```
"""#2. .keys() & values()"""
```

```
person2
```

```
person2.keys()
```

```
person2.values()
```

```
person2["age"] = 30
```

```
person2
```

```
person2.update({"gender":"male"})
```

```
person2
```



```
"""# **## SLICING**
```

```
#list slicing
```

```
"""
```

```
list1 = [10,20,30,40,50,60,70]
```

```
print(list1[0:4])
```

```
print(list1[:4])
```

```
print(list1[2:5])
```

```
print(list1[::-1])
```

```
list3 = list1[::-1]
```

```
list3
```

```
list3[0]
```