

## CREATION OF TUPLE

```
In [ ]: t1 = ("apple", "banana", "cherry")
print(t1)
```

('apple', 'banana', 'cherry')

duplication of tuple

```
In [ ]: t1 = ("apple", "banana", "cherry", "apple", "cherry")
print(t1)
print(len(t1))
```

('apple', 'banana', 'cherry', 'apple', 'cherry')

5

Type of tuple:

```
In [ ]: tuple1 = ("abc", 34, True, 40, "male")
print(tuple1)
print(type(tuple1))
```

('abc', 34, True, 40, 'male')

<class 'tuple'>

```
In [ ]: x = ("apple", "banana", "cherry") # updation
y = list(x)
y[1] = "kiwi"
x = tuple(y)
```

print(x)

('apple', 'kiwi', 'cherry')

methods of tuple:

```
In [ ]: t3 = ("apple", "banana", "cherry")
y = list(t3)
y.remove("apple")
t3 = tuple(y)
print(t3)
```

('banana', 'cherry')

```
In [ ]: t2 = ("apple", "banana", "cherry")
y = ("orange",)
t2 += y
```

print(t2)

('apple', 'banana', 'cherry', 'orange')

```
In [ ]: t7 = (1, 3, 7, 8, 7, 5, 4, 6, 8, 5)
```

x = t7.index(6)

print(x)

7

## SET FUNCTION AND METHOD

```
In [ ]: SET1 = {"apple", "banana", "cherry", "apple"} # AVOID DUPLICATE

print(SET1)
print(type(SET1))
SET1.add("kiwi",)
print(SET1)

{'banana', 'apple', 'cherry'}
<class 'set'>
{'banana', 'apple', 'kiwi', 'cherry'}
```

```
In [ ]: SET1.remove("apple")
print(SET1)

{'kiwi', 'cherry'}
```

```
In [ ]: SET3 = { "cherry","orange"," mango"}
print(SET3)
print(SET1)
print("INTERSECTION:")
z = SET1.intersection(SET3)
print("\t",z)
print("union")

z2 = SET3.union(SET1)
print("\t",z2)

{' mango', 'orange', 'cherry'}
{'kiwi', 'cherry'}
INTERSECTION:
    {'cherry'}
union
    {'kiwi', 'cherry', ' mango', 'orange'}
```

```
In [ ]: x = {"apple", "banana", "cherry"}
y = {"google", "microsoft", "apple"}
print("Intersection update")
x.intersection_update(y)

print(x)
```

Intersection update  
{'apple'}

Dictionary in Python

```
In [ ]: Dict = {1: 'python', 2: 'For', 3: 'java'}
print(Dict)

{1: 'python', 2: 'For', 3: 'java'}
```

```
In [ ]: Dict1 = {}
print("Empty Dictionary: ")
print(Dict)

# Adding elements one at a time
Dict1[0] = 'python'
Dict1[2] = 'For'
Dict1[3] = 1
print("\nDictionary after adding 3 elements: ")
print(Dict)
print("LENGHT OF Dictionary : ",len(Dict))
```

Empty Dictionary:

```
{1: 'python', 2: 'For', 3: 'java'}
```

Dictionary after adding 3 elements:

```
{1: 'python', 2: 'For', 3: 'java'}
```

LENGHT OF Dictionary : 3

```
In [ ]: d = {1: '001', 2: '010', 3: '011'}  
print(d.popitem())
```

(3, '011')

```
In [ ]: d = {1: '001', 2: '010', 3: '011'}  
print(d.get(4, "Not found"))
```

Not found