

```
In [ ]: Data Types:
```

- 1- Numbers
- 2- String
- 3- List
- 4- Tuple
- 5- Dictionary
- 6- Set

```
In [ ]: age = 20
```

Numbers

```
In [ ]: 1- Number data tpe store in numeric data
        2- 3 Types of Data as a type stored in numbers data types
           1- Int
           2- Float (Decimal)
           3- Complex
```

```
In [1]: age = 20
```

```
In [2]: type(age)
```

```
Out[2]: int
```

```
In [3]: age_flaot = 20.05
```

```
In [4]: type(age_flaot)
```

```
Out[4]: float
```

String

```
In [ ]: name = "I love my country"
```

- 1- A string is a data structure in python that represents a sequence of characters
- 2- It is an immutable data type : meaning once you have created it you can not change it.
- 3- whenever you want show or add the value as string data type you will be use single or double quot

```
In [6]: first_name = "John"
        sentence = "I'm there"
```

List

```
In [ ]: 1- List are created using square brackets
        2 -List is stored multiple items in single variable

        names = ["john","bob","vanila",100,200,300,100,200,300]

        3- List is the mutable
        4- List items are ordered,changeable and duplicate allow
```

Tuple

```
In [ ]: 1- tuple are created using round brackets eg. ()

        names = ()

        2- tuple is stored multiple items in single variable

        names = ("apple","banana","mango",1,2,3)

        3- tuple is the immutable

        4- tuple items are ordered, but unchangeable, duplicate allow

        5- tuple is faster than list
```

Dictionary

```
In [ ]: 1- Dictionary are created using curly brackets eg. {}
        2- Dictionary always stored in key, value format

        name = {"name": "john", "age": 20}

        3- Dictionary is mutable
        4- Dictionary can not have two items with same key

        fruits = {'name': 'apple','another_name': 'banana','name':'pine apple'}
```

```
In [7]: fruits = {'name': 'apple','another_name': 'banana','name':'pine apple'}
```

```
In [8]: fruits
```

```
Out[8]: {'name': 'pine apple', 'another_name': 'banana'}
```

Set

```
In [ ]: 1- set are created using curly brackets eg. {}  
2- Set is mutable  
3- Duplicate values can not be stored  
4- Set is stored multiple items in single variable  
thisset = {"apple", "banana", "cherry"}  
5- Set can not have two items with same value  
thisset = {"apple", "banana", "cherry", "apple"}
```

```
In [9]: thisset = {"apple", "banana", "cherry", "apple"}  
thisset
```

```
Out[9]: {'apple', 'banana', 'cherry'}
```

```
In [ ]:
```