In [1]:

```python
# Data Types
```

In [2]:

```python
# Numerical:- Int,float,complex
# textual:- String
# tuple:- collection data type
```

In [6]:

```python
# we can store any data type with in a tuple

students = ('Karan','Ajay','Mohit',12,23.6,45-8j,(12,45,'Harry'))


print(type(students))
print(students)
```

```
<class 'tuple'>
('Karan', 'Ajay', 'Mohit', 12, 23.6, (45-8j), (12, 45, 'Harry'))
```

In [7]:

```python
# list:- we have to square bracket for list

data = [12,23.55,"karan",(1,2,3,4),78-9j,[1,2,3,45]]

print(data)
```

```
[12, 23.55, 'karan', (1, 2, 3, 4), (78-9j), [1, 2, 3, 45]]
```

In [8]:

```python
print(type(data))
```

```
<class 'list'>
```

In [9]:

```python
# list:- is a muttable object/data types

# tuple is an immutable object /data types
```

In [10]:

```
# set :- is an unordered unique collection of data type

a = [1,1,1,111,12,1,1,12,2,2,22,32,3,3,3,334,4,4,4,4,5,5,556]

print(a)
```

```
[1, 1, 1, 111, 12, 1, 1, 12, 2, 2, 22, 32, 3, 3, 3, 334, 4, 4, 4, 4, 5, 5, 556]
```

In [11]:

```
# set data type

a = {1,1,1,111,12,1,1,12,2,2,22,32,3,3,3,334,4,4,4,4,5,5,556}

print(a)
```

```
{32, 1, 2, 3, 4, 5, 12, 556, 334, 111, 22}
```

In [14]:

```
a = {'Ajay','Ajay','Ajay','Ajay','Mohit','Ajay','Mohit','Ajay'}

print(a)
```

```
{'Ajay', 'Mohit'}
```

In [15]:

```
print(type(a))
```

```
<class 'set'>
```

In [19]:

```
a = [1,2,3,45,6]

print(type(a))
```

```
<class 'list'>
```

In [20]:

```
a = {1,1,1,12,2,2,2,3,3,34}

print(type(a))
```

```
<class 'set'>
```

In [21]:

```
# str
# Numerical: int,float,complex
# tuple,list,set
# mapped data type:- dict
```

In [22]:

```
1  # dictionary data type/ mapped /key valued data type
2
3
4  passwords = {"Mohit":1234,"Pamai":2345,'Age':23,'Class':12}
```

```
  Cell In[22], line 4
    passwords = {"Mohit",1234,"Pamai":2345,'Age':23,'Class':12}
                                     ^
SyntaxError: invalid syntax
```

In [23]:

```
pamai_details = {"Name":'Pamai','Age':23,'Addresss':'Noida','Salary':98987,'phone':9898787654}

print(pamai_details)
```

```
{'Name': 'Pamai', 'Age': 23, 'Addresss': 'Noida', 'Salary': 98987, 'phone': 9898787654}
```

In [24]:

```
print(type(pamai_details))
```

```
<class 'dict'>
```

In [27]:

```python
# do not want to strore any data with in a variable

data = None

print(data)
print(type(data))
```

```
None
<class 'NoneType'>
```

In [28]:

```python
help('keywords')
```

```

Here is a list of the Python keywords.  Enter any keyword to get more help.

False               class               from                or
None                continue            global              pass
True                def                 if                  raise
and                 del                 import              return
as                  elif                in                  try
assert              else                is                  while
async               except              lambda              with
await               finally             nonlocal            yield
break               for                 not
```

In [29]:

```python
# bool data type

member = True

print(member)
```

```
True
```

In [30]:

```python
print(type(member))
```

```
<class 'bool'>
```

In [33]:

```python
# bool data type

member = False

print(member)
```

```
False
```

In [34]:

```python
# int,float,complex
# str,tuple,list
# set
# dict
# bool

```

In [35]:

```python
a = {1,2,34,5}

print(a)
```

```
{1, 2, 34, 5}
```

In [36]:

```python
var = frozenset({1,2,3,45})
```

In [37]:

```python
print(var)
```

```
frozenset({1, 2, 3, 45})
```

In [38]:

```python
print(type(var))
```

```
<class 'frozenset'>
```

In [39]:

```
# int,float,complex
# str,tuple,list
# set
# dict
# bool
# None
#Frozenset
```

In [ ]:

```
# imp

# int,float,complex
# str,tuple,list
# set
# dict
# bool

```