Basic Data Types:

```
* List
* Dictionary
* Tuple
```

List:

Dictionary:

```
A list is a collection of elements.
  [] - It is used to identify a list.
   List can contain different types of elements.
In [1]:
mylist = [20,30,40,50,60,70]
mylist
Out[1]:
[20, 30, 40, 50, 60, 70]
In [2]:
mylist[0]
Out[2]:
20
In [3]:
mylist[0:3]
Out[3]:
[20, 30, 40]
In [4]:
mylist[2:]
Out[4]:
[40, 50, 60, 70]
In [5]:
x = [1, "b", 3]
x[1]
Out[5]:
'b'
```

```
A dictionary is a collection of key and value pairs.
   {} - It is used to identify a dictionary.
   It always have a key and value structure.
In [6]:
dict = {"Fruit" : "Apple", "Colour" : "Pink", "Number" : 1}
In [7]:
dict["Number"]
Out[7]:
1
In [8]:
dict.keys()
Out[8]:
dict_keys(['Fruit', 'Colour', 'Number'])
In [9]:
dict.values()
Out[9]:
dict values(['Apple', 'Pink', 1])
In [10]:
students = {"s_1" : ["IBM"], "s_2" : ["INFOSYS", "WIPRO", "GOOGLE"]}
In [12]:
students["s_2"][2]
Out[12]:
'GOOGLE'
Tuple:
   () - It is used to identify tuple.
In [13]:
tup = (1,2,3,4,5)
print (tup)
(1, 2, 3, 4, 5)
In [15]:
tup[1]
Out[15]:
2
```

Difference between List and Tuple:

- * List are mutable (add or remove the elements)
- * Tuple are immutable (once created it cannot be modified)

In []: