- Variable Indexing & Lists

Name = Saif Ul Mateen Email = ulmateen@gmail.com Whatsapp = +923032171002

In [26]:
```
fruits = ["Apple", "mango", "oranges", "Banana", "Kiwi", "pineApple"]
fruits
print(type(fruits))
```

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

In [2]:
```
fruits[5]
```

Out[2]:
```
'pineApple'
```

In [3]:
```
len(fruits)
```

Out[3]:
```
6
```

In [4]:
```
fruits[0:3]
```

Out[4]:
```
['Apple', 'mango', 'oranges']
```

In [5]:
```
type(fruits)
```

Out[5]:
```
list
```

In [6]:
```
veg = "lady finger"
veg
```

Out[6]:
```
'lady finger'
```

In [7]:
```
veg.capitalize()
```

Out[7]:
```
'Lady finger'
```

In [8]:
```
veg.upper()
```

Out[8]:
```
'LADY FINGER'
```

In [10]:
```
veg1 = veg.replace("lady finger", "Carrot")
veg1
```

Out[10]:
```
'Carrot'
```

In [12]:
```
veg1.encode("utf-8")
```

Out[12]:
```
b'Carrot'
```

In [15]:
```
cars = "Lamborghini, Ferrari, Audi, BMW, F1, Dodge"
cars
cars.split(",")
```

Out[15]:
```
['Lamborghini', ' Ferrari', ' Audi', ' BMW', ' F1', ' Dodge']
```

In [18]:
```
if "Apple" in fruits:
    print("Yes! Apple is included")
```

```
Yes! Apple is included
```

- Tuples

In [19]:
```
names = ("Kashan", "Faris", "Hashim", "Zain")
names
```

Out[19]:
```
('Kashan', 'Faris', 'Hashim', 'Zain')
```

In [20]:
```
type(names)
```

Out[20]:
```
tuple
```

In [21]:
```
len(names)
```

Out[21]:
```
4
```

In [24]:
```
other_names = ("Amir", "Kashif")
print(names + other_names)
```

```
('Kashan', 'Faris', 'Hashim', 'Zain', 'Amir', 'Kashif')
```

- Dictionaries

In [27]:
```
info = {
    "Name" : "Saif",
    "Age" : 26,
    "Education" : "Diploma"
}
info
```

Out[27]:
```
{'Name': 'Saif', 'Age': 26, 'Education': 'Diploma'}
```

In [28]:
```
type(info)
```

Out[28]:
```
dict
```

- Sets

In [29]:
```
games = {"COD Warzone", "Battlefield", "Valorant", "CSGO", "Froza Horizon"}
games
```

Out[29]:
```
{'Battlefield', 'COD Warzone', 'CSGO', 'Froza Horizon', 'Valorant'}
```

In [30]:
```
type(games)
```

Out[30]:
```
set
```