In [1]:
```
#List
list = [1,5,2.4,33.7,'python','hi']
```

In [2]:
```
print(list)
```

```
[1, 5, 2.4, 33.7, 'python', 'hi']
```

In [3]:
```
#append()
list.append(7)
```

In [4]:
```
print(list)
```

```
[1, 5, 2.4, 33.7, 'python', 'hi', 7]
```

In [5]:
```
#insert()
list.insert(7,'bye')
```

In [6]:
```
print(list)
```

```
[1, 5, 2.4, 33.7, 'python', 'hi', 7, 'bye']
```

In [7]:
```
#index()
list.index(2.4)
```

Out[7]:
```
2
```

In [8]:
```
#remove()
list.remove('bye')
```

In [9]:
```
print(list)
```

```
[1, 5, 2.4, 33.7, 'python', 'hi', 7]
```

In [10]:
```
#pop()
list.pop(2)
```

Out[10]:
```
2.4
```

In [11]:
```
print(list)
```

```
[1, 5, 33.7, 'python', 'hi', 7]
```

In [22]:
```
#indexing in list
list = [2,6,8.6,'python','hi']
```

In [24]:
```
list
```

Out[24]:
```
[2, 6, 8.6, 'python', 'hi']
```

In [14]:
```
list.index(8.6)
```

Out[14]:
```
2
```

In [25]:
```
list[1]
```

Out[25]:
```
6
```

In [16]:
```
list[3]
```

Out[16]:
```
'python'
```

In [26]:
```
list[2:4]
```

Out[26]:
```
[8.6, 'python']
```

In [27]:
```
#Copy
list = [5,2,8.9,'hi']
list.copy
print(list)
```

```
[5, 2, 8.9, 'hi']
```

In [30]:
```
#Sort
list = [7,3,9]
list.sort()
print(list)
```

```
[3, 7, 9]
```

In [16]:
```
#Clear
x = [5,2,8.9,'hi']
x.clear()
print(x)
```

```
[]
```

In [15]:
```
#reversed
print(list(reversed(x)))
```

```
['hi', 8.9, 2, 5]
```

In [19]:
```
#extend
x = [7,9.4,7]
x.extend(['python',9])
print(x)
```

```
[7, 9.4, 7, 'python', 9]
```

In [20]:
```
#Count
x.count(7)
```

Out[20]:
```
2
```

In [18]:
```
#Arithmatic operators
56 + 98
```

Out[18]:
```
154
```

In [19]:
```
89 - 98
```

Out[19]:
```
-9
```

In [20]:
```
65 * 45
```

Out[20]:
```
2925
```

In [21]:
```
34 / 5
```

Out[21]:
```
6.8
```

In [22]:
```
43 % 3
```

Out[22]:
```
1
```

In [23]:
```
4 ** 8
```

Out[23]:
```
65536
```

In [24]:
```
7 // 4
```

Out[24]:
```
1
```

In [25]:
```
#Comparision operators
6 > 4
```

Out[25]:
```
True
```

In [26]:
```
9 < 3
```

Out[26]:
```
False
```

In [27]:
```
9 == 9
```

Out[27]:
```
True
```

In [28]:
```
6 != 9
```

Out[28]:
```
True
```

In [29]:
```
#Logical Operator
a = 9
a < 10 and  a < 5
```

Out[29]:
```
False
```

In [30]:
```
#Or Operator
a = 7
a < 9 or a < 4
```

Out[30]:
```
True
```

In [31]:
```
#Not Operator
x = 3;
not(x < 5 and x < 10)
```

Out[31]:
```
False
```

In [32]:
```
#Identity Operators
x = 7
```

In [33]:
```
x == 7
```

Out[33]:
```
True
```

In [34]:
```
x != 7
```

Out[34]:
```
False
```

In [35]:
```
#Membership Operators
x = [2,4,6,8]
```

In [36]:
```
6 in x
```

Out[36]:
```
True
```

In [37]:
```
2 not in x
```

Out[37]:
```
False
```