

xxxxxxxxxx

2 + 2

Out[1]:

4

. . .

In [3]:



xxxxxxxxxx

"string" + "string"

Out[3]:

'stringstring'

. . .

In [4]:



xxxxxxxxxx

123.05 + 12

Out[4]:

135.05

. . .

In [5]:



xxxxxxxxxx

12 / 4

Out[5]:

3.0

. . .

In [6]:



xxxxxxxxxx

12 // 4

Out[6]:

3

. . .

In [7]:



xxxxxxxxxx

12 // 5

Out[7]:

2

. . .

In [8]:



x

12.0 // 5

Out[8]:

2.0

. . .

In [9]:



5 % 3

Out[9]:

2

. . .



xxxxxxxxxx

**# Python List**

Python List[¶](http://localhost:8888/notebooks/Python_Class2.ipynb#Python-List)

In [10]:



list =[1, "Ali","karachi"]

. . .

In [11]:



xxxxxxxxxx

list

Out[11]:

[1, 'Ali', 'karachi']

. . .

In [12]:



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list[-1]

Out[12]:

'karachi'

. . .

In [13]:



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list[2]

Out[13]:

'karachi'

. . .

In [14]:



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list.append("Lahore")

. . .

In [15]:



xxxxxxxxxx

list

Out[15]:

[1, 'Ali', 'karachi', 'Lahore']

. . .

In [16]:



list.append(27)

. . .

In [17]:



list

Out[17]:

[1, 'Ali', 'karachi', 'Lahore', 27]

. . .

In [18]:



list.insert(1,"Ahmed")

. . .

In [19]:



list

Out[19]:

[1, 'Ahmed', 'Ali', 'karachi', 'Lahore', 27]

. . .

In [20]:



del list[0]

. . .

In [21]:



list

Out[21]:

['Ahmed', 'Ali', 'karachi', 'Lahore', 27]

. . .

In [22]:



list.remove("karachi")

. . .

In [23]:



list

Out[23]:

['Ahmed', 'Ali', 'Lahore', 27]

. . .

In [27]:



xxxxxxxxxx

list.pop(0)

Out[27]:

'Ahmed'

. . .

In [28]:



xxxxxxxxxx

list

Out[28]:

['Lahore']

. . .

In [29]:



xxxxxxxxxx

list.append("karachi")

. . .

In [30]:



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list.append(123)

. . .

In [31]:



xxxxxxxxxx

list

Out[31]:

['Lahore', 'karachi', 123]

. . .

In [32]:



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list1 = ['Asad', 'Saeed', 'Ali', 'Ahmed','Bilal']

. . .

In [34]:



print(list1)

['Asad', 'Saeed', 'Ali', 'Ahmed', 'Bilal']

. . .

In [35]:



x

list1.sort() #Ascending Order

print(list1)

['Ahmed', 'Ali', 'Asad', 'Bilal', 'Saeed']

. . .

In [36]:



xxxxxxxxxx

list1.sort(reverse = True) #Descending Order

print(list1)

['Saeed', 'Bilal', 'Asad', 'Ali', 'Ahmed']

. . .

In [40]:



mylist = [1,2,3,4,5,6,7,8,9,0]

. . .

In [41]:



x

new = mylist[2:5] #slicing

print(new)

mylist

[3, 4, 5]

Out[41]:

[1, 2, 3, 4, 5, 6, 7, 8, 9, 0]

. . .

In [48]:



x

new = mylist[0:] #slicing till end of the list

print("My List: ", mylist)

print("Slicing List: ", new)

My List: [1, 2, 3, 4, 5, 6, 7, 8, 9, 0]

Slicing List: [1, 2, 3, 4, 5, 6, 7, 8, 9, 0]

. . .

In [49]:



new = mylist[:5] #slicing till end of the list

print("My List: ", mylist)

print("Slicing List: ", new)

My List: [1, 2, 3, 4, 5, 6, 7, 8, 9, 0]

Slicing List: [1, 2, 3, 4, 5]

. . .

In [50]:



new = mylist[0:8]

print("My List: ", mylist)

print("Slicing List: ", new)

My List: [1, 2, 3, 4, 5, 6, 7, 8, 9, 0]

Slicing List: [1, 2, 3, 4, 5, 6, 7, 8]