

In [1]:

```
x=input("Enter the name :")
print("Hi ",x)
```

Enter the name :Nithish
Hi Nithish

In [2]:

```
#Python List
```

In [7]:

```
A=['a','b','c']
B=[1,2,3]
```

In [8]:

```
print(A)
print(B)
print(type(A))
print(type(B))
```

```
['a', 'b', 'c']
[1, 2, 3]
<class 'list'>
<class 'list'>
```

In [9]:

```
#Indexing in List
print(A[0])
print(A[-1])
print(B[0])
print(B[-1])
```

```
a
c
1
3
```

In [10]:

```
#Adding elements to the existing List
A.append('D')
B.append(4)
```

In [11]:

```
print(A)
print(B)
```

```
['a', 'b', 'c', 'D']
[1, 2, 3, 4]
```

In [14]:

```
#Extend
A.extend('e')
```

In [15]:

```
A
```

Out[15]:

```
['a', 'b', 'c', 'D', 'e', 'e']
```

In [17]:

```
A
```

Out[17]:

```
['a', 'b', 'c', 'D', 'e']
```

In [18]:

```
B.insert(4,5)
```

In [19]:

```
B
```

Out[19]:

```
[1, 2, 3, 4, 5]
```

In [21]:

```
#del  
del A[-1]  
A
```

Out[21]:

```
['a', 'b', 'c']
```

In [22]:

```
A.pop() # reomves last item  
# to remove specific A.pop(index)
```

Out[22]:

```
'c'
```

In [23]:

```
A
```

Out[23]:

```
['a', 'b']
```

In [24]:

```
# Remove particular Element  
B.remove(5)
```

In [25]:

```
B
```

Out[25]:

```
[1, 2, 3, 4]
```

In [30]:

```
#min and Max  
x=[1,2,5,4,3]  
y=['a','b','e','d','c']  
x.sort()  
y.sort()
```

In [31]:

```
x
```

Out[31]:

```
[1, 2, 3, 4, 5]
```

```
In [32]:
```

```
y
```

```
Out[32]:
```

```
['a', 'b', 'c', 'd', 'e']
```

```
In [33]:
```

```
#Python Tuples  
a1=(1,2,3)  
a1
```

```
Out[33]:
```

```
(1, 2, 3)
```

```
In [34]:
```

```
a2=(1,'hello',3.4)  
a2
```

```
Out[34]:
```

```
(1, 'hello', 3.4)
```

```
In [35]:
```

```
my_tuple = ('p','e','r','m','i','t')  
print(my_tuple[0])
```

```
p
```

```
In [36]:
```

```
#Excercise
```

```
In [41]:
```

```
list1=[1,2,3,4,5,6,7,8,9,10]
```

```
In [42]:
```

```
list1.append(11)  
list1
```

```
Out[42]:
```

```
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11]
```

```
In [43]:
```

```
list1.pop()  
list1
```

```
Out[43]:
```

```
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

```
In [44]:
```

```
max_list=max(list1)  
max_list
```

```
Out[44]:
```

```
10
```

```
In [45]:
```

```
min_list=min(list1)
min_list
```

Out[45]:

1

In [46]:

```
#2) Create a tuple and print the reverse of the created tuple
```

In [47]:

```
tuple_1=(1,2,3,4,5,6,7,8,9,10)
tuple_1[::-1]
```

Out[47]:

(10, 9, 8, 7, 6, 5, 4, 3, 2, 1)

In [48]:

```
#3) Create a tuple and convert tuple into list
```

In [49]:

```
tuple_to_list=('apple','orange','grapes')
tuple_to_list
```

Out[49]:

('apple', 'orange', 'grapes')

In [50]:

```
list(tuple_to_list)
```

Out[50]:

['apple', 'orange', 'grapes']