

In [ ]:

```
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```

In [2]:

```
##Question no. 01  
stulist=['Ram','Chennai',2017]  
newlist=stulist+['CS']  
print(stulist)  
print(newlist)
```

```
['Ram', 'Chennai', 2017]  
['Ram', 'Chennai', 2017, 'CS']
```

In [5]:

```
#Question no. 02  
stulist=['Ram','Chennai',2017]  
stulist[0]
```

Out[5]:

```
'Ram'
```

In [6]:

```
stulist[:3]
```

Out[6]:

```
['Ram', 'Chennai', 2017]
```

In [7]:

```
stulist[1:]
```

Out[7]:

```
['Chennai', 2017]
```

In [8]:

```
stulist[1:1]
```

Out[8]:

```
[]
```

In [9]:

```
stulist[5:2]
```

Out[9]:

```
[]
```

In [10]:

```
stulist[:]
```

Out[10]:

```
['Ram', 'Chennai', 2017]
```

In [11]:

```
stulist[-2:]
```

Out[11]:

```
['Chennai', 2017]
```

In [12]:

```
stulist[:-2]
```

Out[12]:

```
['Ram']
```

In [13]:

```
stulist[1:3]
```

Out[13]:

```
['Chennai', 2017]
```

In [16]:

```
#Question no. 03
stulist=['Ram','Chennai',2017]
stulist.append('CS')
print('After appending')
print(stulist)
```

After appending  
['Ram', 'Chennai', 2017, 'CS']

In [18]:

```
#Qusestion no. 04
stulist=['Ram','Chennai',2017]
dept=['CS']
print("Before Extend:"),stulist
stulist.extend(dept)
print("After Extend:"),stulist
```

Before Extend:  
After Extend:

Out[18]:

```
(None, ['Ram', 'Chennai', 2017, 'CS'])
```

In [19]:

```
#Question no.05
stulist=['Ram','Chennai',2017]
print('Index of Ram:'),stulist.index('Ram')
print('Index of Chennai:'),stulist.index('Chennai')
print('Index of 2017:'),stulist.index(2017)
```

Index of Ram:  
Index of Chennai:  
Index of 2017:

Out[19]:

(None, 2)

In [20]:

```
#Qusetion no. 06
stulist=['Ram','Chennai',2017]
print('Before insert:'),stulist
stulist.insert(1,'CSE')
print('After insert:'),stulist
```

Before insert:  
After insert:

Out[20]:

(None, ['Ram', 'CSE', 'Chennai', 2017])

In [23]:

```
#Qusetion no. 07
#POP
stulist=['Ram','Chennai',2017,'CSE',92.7]
print('Initial list is:'),stulist
print('popping the last item:'),stulist.pop()
print('After popping the last ithem,the list is:'),stulist
```

Initial list is:  
popping the last item:  
After popping the last ithem,the list is:

Out[23]:

(None, ['Ram', 'Chennai', 2017, 'CSE'])

In [24]:

```
#Question n0. 08
#POP(INDEX)
stulist=['Ram','Chennai',2017,'CSE',92.7]
print('Initial list is:'),stulist
print('popping an item with index 2:'),stulist.pop(2)
#2 is an index of the item to be removed
print('Now the list is:'),stulist
```

Initial list is:  
popping an item with index 2:  
Now the list is:

Out[24]:

(None, ['Ram', 'Chennai', 'CSE', 92.7])

In [25]:

```
#Question no. 09
#Remove
stulist=['Ram','Chennai',2017,'CSE',92.7,2017]
print('Initial list is:'),stulist
stulist.remove('CSE')
print('After removing CSE from the list:'),stulist
stulist.remove(2017)
print('After removing 2017 from the list:'),stulist
```

Initial list is:  
After removing CSE from the list:  
After removing 2017 from the list:

Out[25]:

(None, ['Ram', 'Chennai', 92.7, 2017])

In [26]:

```
#Question no. 10
#Reverse
stulist=['Ram','Chennai',2017,'CSE',92.7]
print('Initial list is:'),stulist
stulist.reverse()
print('After reversing,the list is:'),stulist
```

Initial list is:  
After reversing,the list is:

Out[26]:

(None, [92.7, 'CSE', 2017, 'Chennai', 'Ram'])

In [27]:

```
#Qusetion no. 11
#SORT
numlist=[6,28,11,4,20,26,13,12]
print('Before sorting:'),numlist
numlist.sort()
print('After sorting is:'),numlist
```

Before sorting:  
After sorting is:

Out[27]:

(None, [4, 6, 11, 12, 13, 20, 26, 28])

In [28]:

```
#Question no. 12
stulist=['Ram','Chennai',2017]
print('Before mutation:'),stulist
stulist[0]='Priya'
print('After mutation:'),stulist
```

Before mutation:  
After mutation:

Out[28]:

(None, ['Priya', 'Chennai', 2017])

In [29]:

```
#Tuples
t1=('C','C++','python',1997,2000);
t2=(1,2,3,4,5,6,7,);
t3=('a','b','c','d','e')
print("t1[0]:"),t1[0]
print("t1[1]:"),t1[1]
print("t2[1:5]:"),t2[1:5]
print("t2[1:]:"),t2[1:]
print("t3[0]:")
```

t1[0]:  
t1[1]:  
t2[1:5]:  
t2[1:]  
t3[0]:

In [30]:

```
nest_t=("hello",[8,4,6],(1,2,3))#nested index
print(nest_t[0][4])
print(nest_t[1][2])
print(nest_t[2][0])
```

0  
6  
1

