

```
stulist=['Ram','Chennai',2017]
newlist=stulist+['CS']
print(stulist)
print(newlist)
```

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

```
stulist=['Ram','Chennai',2017]
stulist[0]
```

```
'Ram'
```

```
stulist[:3]
```

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

```
stulist[1:]
```

```
↳ ['Chennai', 2017]
```

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

```
[]
```

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

```
[]
```

```
stulist[:]
```

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

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

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

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

```
['Ram']
```

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

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

```
stulist=['Ram','Chennai',2017]
stulist.append('CS')
print('After appending')
print(stulist)
```

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

```
stulist=['Ram','Chennai',2017]
dept=['CS']
print("Before Extend:"),stulist
stulist.extend(dept)
print("After Extend:"),stulist
```

```
Before Extend:
After Extend:
(None, ['Ram', 'Chennai', 2017, 'CS'])
```

```
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:
(None, 2)

#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 item,the list is :'),stulist
```

```
Initial list is:
Popping the last item:
After popping the last item,the list is :
(None, ['Ram', 'Chennai', 2017, 'CSE'])
```

```
#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:
(None, ['Ram', 'Chennai', 'CSE', 92.7])
```

```
#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:
(None, ['Ram', 'Chennai', 92.7, 2017])
```

```
#REVERSE
stulist=['Ram','Chennai',2017,'CSE',92.7]
print('Intial list is:'),stulist
stulist.reverse()
print('After reversing,the list is:'),stulist
```

```
Intial list is:
After reversing,the list is:
(None, [92.7, 'CSE', 2017, 'Chennai', 'Ram'])
```

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

```
#MUTABILITY
stulist=['Ram','Chennai',2017]
print('Before mutation:'),stulist
stulist[0]='Priya'
print('After mutation:'),stulist
```

```
Before mutation:
After mutation:
(None, ['Priya', 'Chennai', 2017])
```

```
#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]:
```

```
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
```

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