In [1]:
```python
#1
stulist=['Ram','Chennai',2017]
newlist=stulist+['CS']
print(stulist)
print(newlist)
```

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

In [2]:
```python
#2
stulist=['Ram','Chennai',2017]
print(stulist[0])
print(stulist[:3])
print(stulist[1:])
print(stulist[1:1])
print(stulist[5:2])
print(stulist[:])
print(stulist[-2:])
print(stulist[:-2])
print(stulist[1:3])
```

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

In [3]:
```python
#3
stulist=['Ram','Chennai',2017]
stulist.append('CS')
print('after appending')
print(stulist)
```

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

In [4]:
```python
#4
stulist=['ram','chennai',2017]
dept=['CS']
print("Before Extend:",stulist)
stulist.extend(dept)
print("After Extend:",stulist)
```

```
Before Extend: ['ram', 'chennai', 2017]
After Extend: ['ram', 'chennai', 2017, 'CS']
```

In [5]:
```python
#5
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: 0
Index of Chennai: 1
Index of 2017: 2
```

In [6]:
```python
#6 insert
stulist=['Ram','Chennai',2017]
print('Before insert:',stulist)
stulist.insert(1,'CSE')
print('After insert:',stulist)
```

```
Before insert: ['Ram', 'Chennai', 2017]
After insert: ['Ram', 'CSE', 'Chennai', 2017]
```

In [7]:
```python
#7 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: ['Ram', 'Chennai', 2017, 'CSE', 92.7]
popping the last item: 92.7
After popping the last item,the list is: ['Ram', 'Chennai', 2017, 'CSE']
```

In [8]:
```python
#8 pop index
stulist=['Ram','Chennai',2017,'CSE',92.7]
print('popping the last item:',stulist)
print('popping an item with index2:',stulist.pop(2))
#2 is an index of the item to be removed
print('Now the list is :',stulist)
```

```
popping the last item: ['Ram', 'Chennai', 2017, 'CSE', 92.7]
popping an item with index2: 2017
Now the list is : ['Ram', 'Chennai', 'CSE', 92.7]
```

#9 remove

In [9]:
```python
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: ['Ram', 'Chennai', 2017, 'CSE', 92.7, 2017]
After removing CSE from the list : ['Ram', 'Chennai', 2017, 92.7, 2017]
After removing 2017 from the list: ['Ram', 'Chennai', 92.7, 2017]
```

In [11]:
```python
#10 reverse
stulist=['Ram','Chennai',2017,'CSE',92.7]
print('Initial list is:',stulist)
stulist.reverse()
print('After reversing,the list:',stulist)
```

```
Initial list is: ['Ram', 'Chennai', 2017, 'CSE', 92.7]
After reversing,the list: [92.7, 'CSE', 2017, 'Chennai', 'Ram']
```

In [ ]: