In [ ]:
```
Jayapradha.C
191109019
```

In [2]:
```
stulist = ['ram','chennai',2017]
newlist = stulist+['CS']
print(stulist)
print (newlist)
```

```
['ram', 'chennai', 2017]
['ram', 'chennai', 2017, 'CS']
```

In [3]:
```
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 [4]:
```
stulist = ['ram','chennai',2017]
stulist.append('CS')
print('after appending')
print(stulist)
```

```
after appending
['ram', 'chennai', 2017, 'CS']
```

In [5]:
```
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 [6]:
```
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 [7]:
```
#inset

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 [8]:
```
#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 [10]:
```
#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: ['ram', 'chennai', 2017, 'CSE', 92.7]
popping an item with index 2 : 2017
now the list is: ['ram', 'chennai', 'CSE', 92.7]
```

In [13]:
```
#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 : ['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 [16]:
```
#reverse

stulist = ['ram','chennai',2017,'CSE',92.7]
print('initial list is:',stulist)
stulist.reverse()
print('after revering, the list is :',stulist)
```

```
initial list is: ['ram', 'chennai', 2017, 'CSE', 92.7]
after revering, the list is : [92.7, 'CSE', 2017, 'chennai', 'ram']
```

In [18]:
```
#sort

numlist = [6,28,11,4,20,26,13,12]
print('before sorting:',numlist)
numlist.sort()
print('aftr sorting is:',numlist)
```

```
before sorting: [6, 28, 11, 4, 20, 26, 13, 12]
aftr sorting is: [4, 6, 11, 12, 13, 20, 26, 28]
```

In [19]:
```
#mutability
stulist = ['ram','chennai',2017]
print('before mutation',stulist)
stulist[0]='priya'
print('after mutation',stulist)
```

```
before mutation ['ram', 'chennai', 2017]
after mutation ['priya', 'chennai', 2017]
```

In [25]:
```
#Tuples

tup1 = ('C','C++','python',1997,2000);
tup2 = (1,2,3,4,5,6,7);
tup3 = ('a','b','c','d','e')
print('tup1[0]:',tup1[0])
print('tup1[1]:',tup1[1])
print('tup2[1:5]:',tup2[1:5])
print('tup2[1:]:',tup2[1:])
```

```
tup1[0]: C
tup1[1]: C++
tup2[1:5]: (2, 3, 4, 5)
tup2[1:]: (2, 3, 4, 5, 6, 7)
```

In [27]:
```
nest_tup = ('hello',[8,4,6],(1,2,3,))
#nested index
print(nest_tup[0][4])
print(nest_tup[1][2])
print(nest_tup[2][0])
```

```
o
6
1
```

In [ ]:
```

```