ASSIGNMENT-4

In [ ]:

```
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#Class : 2nd B.Sc. Chemistry(aided)
```

Q.No.-1

In [1]:

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

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

Q.No.-2

In [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]
```

Q.No.-3

In [3]:

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

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

Q.No.-4

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']
```

Q.No.-5

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
```

Q.No.-6

In [7]:

```
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]
```

Q.No.-7 pop

In [8]:

```
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']
```

Q.No.-8 pop(index)

In [10]:

```
stulist=['Ram','Chennai',2017,'CSE',92.7]
print('Initial list is : ',stulist)
print('Popping an item with index 2 : ',stulist.pop(2))
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]
```

Q.No.-9 remove

In [11]:

```
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]
```

Q.No.-10 reverse

In [12]:

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

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

Q.No.-11 sort

In [1]:

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

```
Before sorting :  [6, 28, 11, 4, 20, 26, 13, 12]
After sorting is :  [4, 6, 11, 12, 13, 20, 26, 28]
```

Q.No.-12 Mutability

In [2]:

```
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]
```

Q.No.-13 TUPLES

In [6]:

```
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:])
print(t3[0])
```

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

Q.No.-14 nested tuple

In [8]:

```
nest_tup=("hello",[8,4,6],(1,2,3))
print(nest_tup[0][4])
print(nest_tup[1][2])
print(nest_tup[2][0])
```

```
o
6
1
```