

191109020 - ASSIGNMENT 04

Question no.01

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

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

Question no.02

```
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]
```

Question no.03

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

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

Question no.04

```
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']

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 : 0
Index of Chennai : 1
Index of 2017 : 2

Question no.06

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]

Question 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 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']

Question no.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 : ['Ram', 'Chennai', 2017, 'CSE', 92.7]
Popping an item with index 2 : 2017
Now the list is : ['Ram', 'Chennai', 'CSE', 92.7]
```

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 : ['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]
```

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

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

Question no.12

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]
```

Question no.13

Tuples

```
t1 = ('C', 'C++', 'python', 1997,2000);t2 = (1, 2, 3, 4, 5, 6, 7 );t3= ('a', 'b', 'c', 'd', 'e')
print("tup1[0]:",t1[0])
print("tup1[1]:",t1[1])
print("tup2[1:5]:",t2[1:5])
print("tup2[1:]:",t2[1:])
```

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

Question no.14

```
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])
```

```
0
6
1
```

