

Assignment:4-List and Tuples

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Ques:1

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

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

Ques:2

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

[0]: Ram
[:3]: ['Ram', 'Chennai', 2017]
[1:]: ['Ram']
[1:1]: []
[5:2]: []
[:]: ['Ram', 'Chennai', 2017]
[-2:]: ['Chennai', 2017]
[:-2]: ['Ram']
[1:3]: ['Chennai', 2017]
```

Ques:3

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

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

Ques: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']
```

Ques: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
```

Ques: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]
```

Ques:7-pop

```
stulist=['Ram','Chennai',2017,'CSE',92.7]
print('Intial list is: ',stulist)
print('Poppping the last item: ',stulist.pop())
print('After popping the last item, the list is: ',stulist)
```

```
Intial list is:  ['Ram', 'Chennai', 2017, 'CSE', 92.7]
Poppping the last item:  92.7
After popping the last item, the list is:  ['Ram', 'Chennai', 2017, 'CSE']
```

Ques:8 -pop(index)

```
stulist=['Ram','Chennai',2017,'CSE',92.7]
print('Intial 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)
```

```
Intial list is: ['Ram', 'Chennai', 2017, 'CSE', 92.7]
Popping an item with index 2: 2017
Now the list is: ['Ram', 'Chennai', 'CSE', 92.7]
```

Ques:9 -remove

```
stulist=['Ram','Chennai',2017,'CSE',92.7,2017]
print('Intial 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)
```

```
Intial 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]
```

Ques:10-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: ['Ram', 'Chennai', 2017, 'CSE', 92.7]
After reversing, the list is: [92.7, 'CSE', 2017, 'Chennai', 'Ram']
```

Ques: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]
```

Ques: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]
```

Ques:13 -Tuples

```
t1=('C','C++','Python',1977,2002)
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]: ",t3[0])
```

```
t1[0]: C
t1[1]: C++
t2[1:5]: (2, 3, 4, 5)
t2[1:] (2, 3, 4, 5, 6, 7)
t3[0]: a
```

Ques:14

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

```
nest_tup[0][4]: o
nest_tup[1][2]: 6
nest_tup[2][0]: 1
```

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