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Class:2nd B.Sc Chemistry (Aided)
Assignment:4
Topic:List and Tuples
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
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['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)
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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)
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stulist[0]='priya'
print('After mutation: ',stulist)
    Before mutation: ['Ram', 'Chennai', 2017]
    After mutation: ['priya', 'Chennai', 2017]
Ques:13 -Tuples
t1=('C','C++','Phython',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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