question1

In [1]:

```python
list1=['vaishnavi','rohitha','himalaya','roshni','nikitha',14,22,11,51,15,'cse','ece',
'mech','aero','eee',9.2,10,8.7,9.6,9.5]
```

In [2]:

```python
list1
```

Out[2]:

```
['vaishnavi',
 'rohitha',
 'himalaya',
 'roshni',
 'nikitha',
 14,
 22,
 11,
 51,
 15,
 'cse',
 'ece',
 'mech',
 'aero',
 'eee',
 9.2,
 10,
 8.7,
 9.6,
 9.5]
```

In [4]:

```python
list1.append('srinija')
```

In [5]:

```
list1
```

Out[5]:

```
['vaishnavi',
 'rohitha',
 'himalaya',
 'roshni',
 'nikitha',
 14,
 22,
 11,
 51,
 15,
 'cse',
 'ece',
 'mech',
 'aero',
 'eee',
 9.2,
 10,
 8.7,
 9.6,
 9.5,
 'srinija']
```

In [6]:

```
list1.append(32)
```

In [7]:

```
list1
```

Out[7]:

```
['vaishnavi',
 'rohitha',
 'himalaya',
 'roshni',
 'nikitha',
 14,
 22,
 11,
 51,
 15,
 'cse',
 'ece',
 'mech',
 'aero',
 'eee',
 9.2,
 10,
 8.7,
 9.6,
 9.5,
 'srinija',
 32]
```

In [9]:

```
list1.append('aerospace')
```

In [10]:

```
list1
```

Out[10]:

```
['vaishnavi',
 'rohitha',
 'himalaya',
 'roshni',
 'nikitha',
 14,
 22,
 11,
 51,
 15,
 'cse',
 'ece',
 'mech',
 'aero',
 'eee',
 9.2,
 10,
 8.7,
 9.6,
 9.5,
 'srinija',
 32,
 'aerospace']
```

In [11]:

```
list1.append(9.4)
```

In [12]:

```
list1
```

Out[12]:

```
['vaishnavi',
 'rohitha',
 'himalaya',
 'roshni',
 'nikitha',
 14,
 22,
 11,
 51,
 15,
 'cse',
 'ece',
 'mech',
 'aero',
 'eee',
 9.2,
 10,
 8.7,
 9.6,
 9.5,
 'srinija',
 32,
 'aerospace',
 9.4]
```

question2

In [13]:

```
region1=[100,200,900,599,450,789,465,345,123,356,236,675]
```

In [14]:

```
region2=[300,400,466,390,266,736,657,354,423,746,857,456]
```

In [23]:

```
region2.extend([region1])
```

In [25]:

```
region2
```

Out[25]:

```
[300,
 400,
 466,
 390,
 266,
 100,
 200,
 900,
 599,
 450,
 300,
 400,
 466,
 390,
 266,
 300,
 400,
 466,
 390,
 266,
 300,
 400,
 466,
 390,
 266,
 100,
 200,
 900,
 599,
 450,
 300,
 400,
 466,
 390,
 266,
 300,
 400,
 466,
 390,
 266,
 300,
 400,
 466,
 390,
 266,
 [100,
  200,
  900,
  599,
  450,
  300,
  400,
  466,
  390,
  266,
  300,
  400,
  466,
  390,
```

```
    266,
    300,
    400,
    466,
    390,
    266]]
```

question3

In [28]:

```
list2=['nikky','vaishu','sweety','vaishu','pinky',12,22,34,45,67]
```

In [29]:

```
list2.index('vaishu',2)
```

Out[29]:

3

In [30]:

```
list2
```

Out[30]:

```
['nikky', 'vaishu', 'sweety', 'vaishu', 'pinky', 12, 22, 34, 45, 67]
```

question4

In [39]:

```
list3=['apple','orange','banana','kiwi','mango']
```

In [40]:

```
list3
```

Out[40]:

```
['apple', 'orange', 'banana', 'kiwi', 'mango']
```

In [41]:

```
 list3.append('grapes')
```

In [42]:

```
list3
```

Out[42]:

```
['apple', 'orange', 'banana', 'kiwi', 'mango', 'grapes']
```

In [43]:

```
list3.extend(['watermelon','muskmelon'])
```

In [44]:

```
list3
```

Out[44]:

```
['apple',
 'orange',
 'banana',
 'kiwi',
 'mango',
 'grapes',
 'watermelon',
 'muskmelon']
```

In [47]:

```
list3.insert(4,'iceapple')
```

In [48]:

```
list3
```

Out[48]:

```
['apple',
 'orange',
 'banana',
 'kiwi',
 'iceapple',
 'mango',
 'grapes',
 'watermelon',
 'muskmelon']
```

question5 pop and removing 2nd element

In [49]:

```
list4=[1,3,4,7,8]
```

In [50]:

```
list4.pop()
```

Out[50]:

```
8
```

In [51]:

```
list4
```

Out[51]:

```
[1, 3, 4, 7]
```

In [52]:

```
list4.remove(3)
```

In [53]:

```
list4
```

Out[53]:

```
[1, 4, 7]
```

In [54]:

```
list4=[3,4,6,2,9,4]
```

In [55]:

```
list4.count(4)
```

Out[55]:

```
2
```

question6

In [56]:

```
list5=[300,564,879,576,345]
```

In [57]:

```
list5.sort()
```

In [58]:

```
list5
```

Out[58]:

```
[300, 345, 564, 576, 879]
```

In [59]:

```
list5.sort(reverse=True)
```

In [60]:

```
list5
```

Out[60]:

```
[879, 576, 564, 345, 300]
```

question7

In [61]:

```
l1=[1,2,3,4,5,6,7,8,9,10]
```

In [62]:

```
l1[0::2]
```

Out[62]:

```
[1, 3, 5, 7, 9]
```

In [63]:

```
l1[1::2]
```

Out[63]:

```
[2, 4, 6, 8, 10]
```

question8

In [64]:

```
region1=(127,456,346,489,435,897,546,243,765,763,867,456)
```

In [65]:

```
region1
```

Out[65]:

```
(127, 456, 346, 489, 435, 897, 546, 243, 765, 763, 867, 456)
```

In [66]:

```
region2=(1,2,3,4,5,6)
```

In [67]:

```
region1+=(region2)
```

In [68]:

```
region1
```

Out[68]:

```
(127, 456, 346, 489, 435, 897, 546, 243, 765, 763, 867, 456, 1, 2, 3, 4,
5, 6)
```

question9

In [75]:

```
t2=('ritu','sai','leela','srinivas','mani','sow','sita','geeta','ram','ritu')
```

In [76]:

```
t2
```

Out[76]:

```
('ritu',
 'sai',
 'leela',
 'srinivas',
 'mani',
 'sow',
 'sita',
 'geeta',
 'ram',
 'ritu')
```

In [74]:

```
t2.count('ritu')
```

Out[74]:

```
2
```

question10

In [77]:

```
quater1=(123,654,987,567,354)
```

In [78]:

```
quater1
```

Out[78]:

```
(123, 654, 987, 567, 354)
```

In [79]:

```
quater2=(435,746,564,345,276)
```

In [80]:

```
quater2
```

Out[80]:

```
(435, 746, 564, 345, 276)
```

In [81]:

```
max(quater1)
```

Out[81]:

```
987
```

In [82]:

```
max(quater2)
```

Out[82]:

```
746
```

question11

In [83]:

```
employeedictionary={'employee name':'vaishu','employee id':12,'employee department':'ec
e'}
```

In [85]:

```
employeedictionary.keys()
```

Out[85]:

```
dict_keys(['employee name', 'employee id', 'employee department'])
```

In [86]:

```
employeedictionary.items()
```

Out[86]:

```
dict_items([('employee name', 'vaishu'), ('employee id', 12), ('employee d
epartment', 'ece')])
```

In [91]:

```
employeedictionary['employee department']
```

Out[91]:

```
'ece'
```

question12

In [99]:

```python
region1={'jan':150,'feb':340,'mar':450}
```

In [100]:

```python
region2={'apr':459,'may':675,'jun':478}
```

In [101]:

```python
region1.update(region2)
```

In [102]:

```python
region1
```

Out[102]:

```
{'jan': 150, 'feb': 340, 'mar': 450, 'apr': 459, 'may': 675, 'jun': 478}
```

question13

In [103]:

```python
region1=set([1,2,3,4,5,6,7,8,9,10,11,12])
```

In [104]:

```python
region1
```

Out[104]:

```
{1, 2, 3, 4, 5, 6, 7, 8, 9, 10}
```

In [105]:

```python
region2=set([13,14,15,16,17,18,19,20,21,22,23,24,25,26,27])
```

In [106]:

```
region1.union(region2)
```

Out[106]:

```
{1,
 2,
 3,
 4,
 5,
 6,
 7,
 8,
 9,
 10,
 13,
 14,
 15,
 16,
 17,
 18,
 19,
 20,
 21,
 22,
 23,
 24,
 25,
 26,
 27}
```

In [ ]: