Sep 26 th tasks nested list

1. a = [1,2,3,4,[101,102,103,[201,202,[999]], 666, 777]]
2. Extract
3. #666
4. #201
5. #102
6. #999
7. #777

Ans :

print(a[4][1])

print(a[4][4])

print(a[4][5])

print(a[4][3][0])

print(a[4][3][2][0])

output :

102

666

777

201

999

2. Li1 = [2,3,"python","hello",4,5,0]

#Extract

#ll

#thon

Ans:

print(Li1[3][2:4])

print(Li1[2][2:])

output:

ll

thon

3.

Li1 = [1,2,3,4,5,[11,22,33,44,55,[111,222,333,444],6666,7777],7777]

#Output Prediction

print(Li1[5][0])

print(Li1[5][6])

print(Li1[5][-2])

print(Li1[5][7])

print(Li1[6])

print(Li1[5][5][1])

print(Li1[-2][-1])

print(Li1[2][2:4])

ouput:

11

6666

6666

7777

7777

222

7777

Traceback (most recent call last):

File "C:/Users/GOKUL PRANESH/AppData/Local/Programs/Python/Python39/nested list task.py", line 37, in <module>

print(Li1[2][2:4])

TypeError: 'int' object is not subscriptable

4. a = [1,2,3,4,[100,101,102,"Computer\_science"],200,203]

#Extract

#science

#computer

Output:

print(a[4][3][:8])

print(a[4][3][9:])

Computer

Science

5. #Create an empty list

#Concatenate with [5,6,7,8,10]

#add 8,3,4,4,10,9,1,5,6,7,8,1 elements to that list

#Find frequency of 8 (count) and index of 10

#find the mean of the list

#find sum (List) + min + Max

#Find median of the list

#remove duplicates from list and give output in the format of tuple

#convert to tuple and set

a = []

print(type(a))

print(a + [5,6,7,8,10])

val1 = (a + [5,6,7,8,10] + [8,3,4,4,10,9,1,5,6,7,8,10])

print(val1)

c = print(val1.count(8))

d = print(val1.index(10))

e = print(sum(val1))

f = print(max(val1))

r = print(min(val1))

h = print(len(val1))

mean = sum(val1)/len(val1)

print(mean)

round = print(round(mean))

y = tuple(dict.fromkeys(val1))

print(y)

v = print(set(y))

output :

<class 'list'>

[5, 6, 7, 8, 10]

[5, 6, 7, 8, 10, 8, 3, 4, 4, 10, 9, 1, 5, 6, 7, 8, 10]

3

4

111

10

1

17

6.529411764705882

7

(5, 6, 7, 8, 10, 3, 4, 9, 1)

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

>>>

6. #Create two tuples (1,4,5,6,7,8) (5,6,7,8,9)

#Find the common elements between two tuples

#Concatenate both tuples and remove duplicates from tuple

#Find the index value of 9 (after concatenation)

#multiply above elements 3 times

tuple1 = (1,4,5,6,7,8)

tuple2 = (5,6,7,8,9)

print(type(tuple1))

print(type(tuple2))

tuple3 = (tuple1 + tuple2)

print(tuple3)

d = tuple(dict.fromkeys(tuple3))

e = print(d)

f = print(tuple3.index(9))

g = print( tuple3 \* 3)

output :

<class 'tuple'>

(1, 4, 5, 6, 7, 8, 5, 6, 7, 8, 9)

(1, 4, 5, 6, 7, 8, 9)

10

(1, 4, 5, 6, 7, 8, 5, 6, 7, 8, 9, 1, 4, 5, 6, 7, 8, 5, 6, 7, 8, 9, 1, 4, 5, 6, 7, 8, 5, 6, 7, 8, 9)

>>>