

```
In [1]: "q1 :
        "ineuron \n",
        "ineuron ineuron \n",
        "ineuron ineuron ineuron\n",
        "ineuron ineuron ineuron ineuron\n",
        "\n",
        "q2 - \n",
        "\n",
        "
            ineruo\n",
        "
            ineuron ineuron\n",
        "ineuron\t\tineruo\n\tineruo\n",
        "\tineruo\t\tineruo\n",
        "\t\t ineruo\n",
        "\n",
        "l = [[1,2,3,4] , (2,3,4,5,6) , (3,4,5,6,7) , set([23,4,5,45,4,4,5,45,45,4,5]) , {'k1' :\'sudh\' , \'k2\' : \'ineuron\',\'k3\' :\n",
        "
            \'kumar\' , 3:6 , 7:8} , [\n"ineuron\' , \'data science \"]]\n",
        "\n",
        "q3 : Try to extract all the list entity \n",
        "q4 : Try to extract all the dict enteties\n",
        "q5 : Try to extract all the tuples enteties\n",
        "q6 : Try to extract all the numerical data it may b a part of dict key and values \n",
        "q7 : Try to give summation of all the numeric data \n",
        "q8 : Try to filter out all the odd values out all numeric data which is a part of a list \n",
        "q9 : Try to extract \'ineruo\' out of this data\n",
        "q10 :Try to find out a number of occurances of all the data \n",
        "q11 : Try to find out number of keys in dict element\n",
        "q12 : Try to filter out all the string data \n",
        "q13 : Try to Find out alphanum in data\n",
        "q14 : Try to find out multiplication of all numeric value in the individual collection inside dataset \n",
        "q15 : Try to unwrape all the collection inside collection and create a flat list \n",
        "
            \n",
        "
            \n",
        "before 29th may 2022 3 PM IST you have to send an answer to me or to shivan \n",
        "sudhansu@ineuron.ai\n",
        "shivan@ineuron.ai"

Input In [1]
'q1 :
^
SyntaxError: EOL while scanning string literal

In [ ]: # doubts- 9,10,11,12,13,14,15

In [3]: # 1
d = "ineuron"
for i in range(5):
    for a in range(0, i+1):
        print("ineuron", end = " ")
    print("\n")

ineuron

ineuron ineuron

ineuron ineuron ineuron

ineuron ineuron ineuron ineuron

ineuron ineuron ineuron ineuron ineuron

In [4]: # 2
a = int(input("Enter the number of rows-"))
for i in range(0,a):
    for b in range(0, a-i-1):
        print(end = " ")
    for b in range(0,i+1):
        print("ineuron", end = " ")
    print()

Enter the number of rows-5
ineuron
ineuron ineuron
ineuron ineuron ineuron
ineuron ineuron ineuron ineuron
ineuron ineuron ineuron ineuron ineuron

In [5]: l = [[1,2,3,4] , (2,3,4,5,6) , (3,4,5,6,7) , set([23,4,5,45,4,4,5,45,45,4,5]) , {'k1' : "sudh" , "k2" : "ineuron","k3": "kumar" , 3:6 , 7:8} , ["ineuron", "data science "]]

In [6]: # 3 "q3 : Try to extract all the list entity \n",
for i in l:
    print(i)

[1, 2, 3, 4]
(2, 3, 4, 5, 6)
(3, 4, 5, 6, 7)
(45, 4, 5, 23)
{'k1': 'sudh', 'k2': 'ineuron', 'k3': 'kumar', 3: 6, 7: 8}
['ineuron', 'data science ']]

In [7]: # "q4 : Try to extract all the dict enteties\n",
for i in l:
    if type(i) == dict:
        print(i)

{'k1': 'sudh', 'k2': 'ineuron', 'k3': 'kumar', 3: 6, 7: 8}

In [8]: # "q5 : Try to extract all the tuples entities\n",
for i in l:
    if type(i) == tuple:
        print(i)

(2, 3, 4, 5, 6)
(3, 4, 5, 6, 7)

In [9]: l = [[1,2,3,4] , (2,3,4,5,6) , (3,4,5,6,7) , set([23,4,5,45,4,4,5,45,45,4,5]) , {'k1' : "sudh" , "k2" : "ineuron","k3": "kumar" , 3:6 , 7:8} , ["ineuron", "data science "]]
# q6 : Try to extract all the numerical data it may b a part of dict key and value

for i in l:

    if type(i) == list or type(i) == tuple or type(i) == set:
        for j in i:
            if type(j) == int:
                print(j)

    if type(i) == dict:

        for k,v in i.items():
            if type(k) == int or type(v) == int:
                print(k)
                print(v)

1
2
3
4
2
3
4
5
6
3
4
5
6
7
45
4
5
23
3
6
7
8

In [10]: "q7 : Try to give summation of all the numeric data \n",
for i in l:
    if type(i) == list or type(i) == tuple or type(i) == set:
        for j in i:
            if type(j) == int:
                sum(j)
                print(j)

-----
TypeError                                Traceback (most recent call last)
Input In [10], in <cell line: 2>()
      4 for j in i:
      5     if type(j) == int:
----> 6         sum(j)
      7         print(j)

TypeError: 'int' object is not iterable

In [11]: for i in l:
    if type(i) == list or type(i) == tuple or type(i) == set:
        for j in i:
            if type(j) == int:

                print(j)

1
2
3
4
2
3
4
5
6
3
4
5
6
7
45
4
5
23

In [12]: variable=0
for i in l:
    if type(i) == list or type(i) == tuple or type(i) == set:
        for j in i:
            if type(j) == int:
                variable=variable+j
                print(variable)
            #
            variable+=j

    if type(i) == dict:
        for k,v in i.items():
            if type(k) == int:
                variable+=k
            if type(v) == int:
                variable+=v

print(variable)

156

In [13]: #"q8 : Try to filter out all the odd values out all numeric data which is a part of a list
for i in l:
    if type(i) == list or type(i) == set or type(i) == tuple:
        for j in i:
            if type(j) == int:
                if j % 2 !=0:
                    print(j)

    if type(i) == dict:
        for k,v in i.items():
            if type(k) == int or type(v) == int:
                if k %2!=0:
                    print(k)
                if v%2!=0:
                    print(v)

1
2
3
4
5
3
5
7
45
5
23
3
7

In [14]: l = [[1,2,3,4] , (2,3,4,5,6) , (3,4,5,6,7) , set([23,4,5,45,4,4,5,45,45,4,5]) , {'k1' : "sudh" , "k2" : "ineuron","k3": "kumar" , 3:6 , 7:8} , ["ineuron", "data science "]]
#q9 : Try to extract \'ineruo\' out of this data
for i in l:
    if type(i) == list or type(i) == set or type(i) == tuple:
        for j in i:
            if type(j) == str:
                if j == "ineuron":
                    print(j)

    if type(i) == dict:
        for k,v in i.items():
            if type(k) == str:
                if (k) == "ineuron":
                    if type(v) == str:
                        if v == "ineuron":
                            print(k,v)

ineuron

In [15]:
    if type(i) == list or type(i) == set or type(i) == tuple:
        for j in i:
            if type(j) == str:
                if j == "ineuron":
                    print(j)

    if type(i) == dict:
        for k,v in i.items():
            if type(k) == str:
                if (k) == "ineuron":
                    if type(v) == str:
                        if v == "ineuron":
                            print(k,v)

ineuron

In [16]: l1=[]
for i in l:
    if type(i)==dict:
        for j in i.values():
            if j=="ineuron":
                l1.append(j)

    elif type(i) == list:
        for j in i:
            if type(j) == "ineuron":
                l1.append(j)

print(l1)

['ineuron']

In [27]: l1=[]
for i in l:
    if type(i)==dict:
        for j in i.values():
            if j=='ineuron':
                l1.append(j)

    elif type(i)==list:
        for j in i:
            if type(j)=='ineuron':
                l1.append(j)

print(l1)

['ineuron']

In [28]: l

Out[28]: [[1, 2, 3, 4],
(2, 3, 4, 5, 6),
(3, 4, 5, 6, 7),
{4, 5, 23, 45},
{'k1': 'sudh', 'k2': 'ineuron', 'k3': 'kumar', 3: 6, 7: 8},
['ineuron', 'data science ']]

In [29]: # q10 :Try to find out a number of occurances of all the data

In [30]: # q11 : Try to find out number of keys in dict element
print(len(l[5]))

2

In [31]: i=l.keys(len(l[5]))
print(i)

-----
AttributeError                                Traceback (most recent call last)
Input In [31], in <cell line: 1>()
----> 1 i=l.keys(len(l[5]))
      2 print(i)

AttributeError: 'list' object has no attribute 'keys'

In [32]: # q12 : Try to filter out all the string data
for i in l:
    if type(str) in l:
        print(l)

In [ ]: # q13 : Try to Find out alphanum in data

In [ ]: # q14 : Try to find out multiplication of all numeric value in the individual collection inside dataset

In [ ]: # q15 : Try to unwrape all the collection inside collection and create a flat list

In [ ]:

In [ ]:
```