2-D Lists:

Announcements:

=> Beginner transition Test:

start date: Thursday, Aug 11 (8 pm)
end date: Tuesday, Aug 16 (11:59 pm)

Syllabus: Till strings !!
Sunday 9 pm ....

Topics for Today:

i) Intro to 2D list
ii) Indexing
iii) Iterating on 2-D list
iv) Questn on 2D list
v) Taking 2D list as input using map funct^n

✱ Indexing in a 2D list :

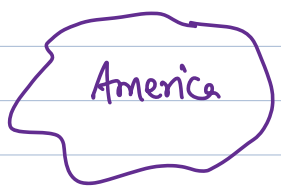
⇒ l = [5, 10, 15, 20] (indices 0, 1, 2, 3)

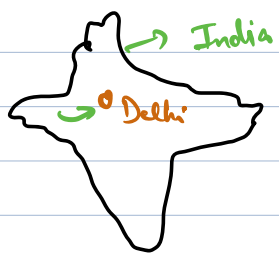
⇒ score = [[100, 20, 50], [90, 30], [20, 50]] (outer indices 0, 1, 2)

⇒ len(score) = 3

⇒ What is at index 0 : list ⇒ [100, 20, 50]

⇒ How do you reach 100 in score list :





⇒ score [0] ⇒ [100, 20, 50]

⇒ score [0] [0] ⇒ 100

⇒ score [0] [1] = 20
score [0] [2] = 50

⇒ score [1] [0] = 90
score [1] [1] = 30

⇒ score [2] = [20, 50]

=> score[2][0] = 20
score[2][1] = 50

=> score = [[100, 20, 50], [90, 30], [20, 50]]
0 1 2 (outer)
0 1 2 (inner)

=> len(score) => 3

```
for i in range(len(score)):
    for j in range(len(score[i])):
        print(score[i][j])
```

i	j		indexes of 2D list
0	0	=>	00
0	1	=>	01
0	2	=>	02
1	0	=>	10
1	1	=>	11
2	0	=>	20
2	1	=>	21

col
0 1 2

l = [[1, 2, 3], => row 0
[5, 6, 7], => row 1
[8, 9, 10]] => row 2