Course outline

How does an NPTEL online course work? ()

Week 1 : Introduction ()

Week 1 Quiz ()

Week 2: Basics of Python ()

Week 2 Quiz ()

Week 2 Programming Assignment ()

Week 3: Lists, inductive

Online Test 2 Question 8

Due on 2020-12-01, 22:00 IST

Question 8

Write a Python function `maxaverage(l)` that takes a list of pairs of the form (name,score) as argument, where name is a string and score is an integer. Each pair is to be interpreted as the score of the named player. For instance, an input of the form [('Kohli',73),('Ashwin',33),('Kohli',7),('Pujara',122), ('Ashwin',90)] represents two scores of 73 and 7 for Kohli, two scores of 33 and 90 for Ashwin and one score of 122 for Pujara. Your function should compute the players who have the highest average score (average = total across all scores for that player divided by number of entries) and return the list of names of these players as a list, sorted in alphabetical order. If there is a single player, the list will contain a single name.

For instance, `maxaverage([('Kohli',73),('Ashwin',33),('Kohli',7), ('Pujara',122),('Ashwin',90)])` should return `['Pujara']` because the average score of Kolhi is 40 (80 divided by 2), of Ashwin is 61.5 (123 divided by 2) and of Pujara is 122 (122 divided by 1), of which 122 is the highest.

Sample Test Cases

	Input	Output
Test Case 1	`maxaverage([('Kohli',73),('Ashwin',33),('Kohli',7), ('Pujara',142),('Ashwin',90)])`	`['Pujara']`
Test Case 2	`maxaverage([('Kohli',73),('Ashwin',33),('Kohli',7), ('Pujara',100),('Pujara',25),('Pujara',35), ('Ashwin',109)])`	`['Ashwin']`

function definitions, sorting ()

Week 3 Programming Assignment ()

Week 4: Sorting, Tuples, Dictionaries, Passing Functions, List Comprehension ()

Week 4 Quiz ()

Week 4 Programming Assignment ()

Week 5: Exception handling, input/output, file handling, string processing ()

Week 5 Programming Assignment ()

Week 6: Backtracking, scope, data structures; stacks, queues and heaps ()

Week 6 Quiz ()

Test Case 3	`maxaverage([('Kohli',73)])`	`['Kohli']`
Test Case 4	`maxaverage([('Kohli',73),('Ashwin',33),('Kohli',69),('Pujara',102),('Pujara',40),('Ashwin',109)])`	`['Ashwin', 'Kohli', 'Pujara']`
Test Case 5	`maxaverage([('Kohli',73),('Ashwin',33),('Kohli',7),('Pujara',122),('Ashwin',90)])`	`['Pujara']`
Test Case 6	`maxaverage([('Kohli',73),('Ashwin',33),('Kohli',7),('Pujara',22),('Ashwin',47)])`	`['Ashwin', 'Kohli']`

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Week 7: Classes, objects and user defined datatypes ()

Week 7 Quiz ()

Week 8: Dynamic programming, wrap-up ()

Week 8 Programming Assignment ()

Text Transcripts ()

Books ()

Download Videos ()

Online Programming Test - Sample ()

Online Programming Test 1, 01 Dec 2020, 10:00-12:00 ()

Online Programming Test 2, 01 Dec 2020, 20:00-22:00 ()

- Instructions (unit?unit=128&lesson=129)
- Online Test 2 Question 1

(/noc20_cs26/progassignment?name=130)

- Online Test 2 Question 2 (/noc20_cs26/progassignment?name=133)
- Online Test 2 Question 3 (/noc20_cs26/progassignment?name=135)
- Online Test 2 Question 4 (/noc20_cs26/progassignment?name=141)
- Online Test 2 Question 5 (/noc20_cs26/progassignment?name=142)
- Online Test 2 Question 6 (/noc20_cs26/progassignment?name=143)
- Online Test 2 Question 7 (/noc20_cs26/progassignment?name=145)
- **Online Test 2 Question 8 (/noc20_cs26/progassignment?name=146)**

Online Programming Test 1, 09 Mar 2021, 10:00-12:00 ()

Online Programming Test 2, 09 Mar 2021, 20:00-22:00 ()