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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Programming, Data Structures And Algorithms Using Python (course)



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 1 Question 8

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

Question 8

Write a Python function `maxaggregate(1)` 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 aggregate score (aggregate = total, so add up all scores for that name) 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, `maxaggregate([('Kohli',73),('Ashwin',33),('Kohli',7),('Pujara',122),('Ashwin',90)])` should return `['Ashwin']` because the aggregate score of Kohli is 80, of Ashwin is 123 and of Pujara is 122, of which 123 is the highest.

Sample Test Cases

	Input	Output
Test Case 1	<code>maxaggregate([('Kohli',73),('Ashwin',33),('Kohli',7),('Pujara',142),('Ashwin',90)])</code>	<code>['Pujara']</code>
Test Case 2	<code>maxaggregate([('Kohli',73),('Ashwin',33),('Kohli',7),('Pujara',142),('Ashwin',109)])</code>	<code>['Ashwin', 'Pujara']</code>
Test Case 3	<code>maxaggregate([('Kohli',73)])</code>	<code>['Kohli']</code>

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 4	<code>maxaggregate([('Kohli',73),('Ashwin',33),('Kohli',69),('Pujara',142),('Ashwin',109)])</code>	<code>['Ashwin', 'Kohli', 'Pujara']</code>
Test Case 5	<code>maxaggregate([('Kohli',73),('Ashwin',33),('Kohli',7),('Pujara',122),('Ashwin',90)])</code>	<code>['Ashwin']</code>
Test Case 6	<code>maxaggregate([('Kohli',73),('Ashwin',33),('Kohli',7),('Pujara',22),('Ashwin',47)])</code>	<code>['Ashwin', 'Kohli']</code>

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
()**

- ☒ Instructions
(unit?
unit=126&lesson=127)
- ☐ Online Test 1
Question 1
(/noc20_cs26/progassignment?
name=131)
- ☐ Online Test 1
Question 2
(/noc20_cs26/progassignment?
name=132)

- ☐ Online Test 1
Question 3
(/noc20_cs26/progassignment?
name=134)
- ☐ Online Test 1
Question 4
(/noc20_cs26/progassignment?
name=136)
- ☐ Online Test 1
Question 5
(/noc20_cs26/progassignment?
name=137)
- ☐ Online Test 1
Question 6
(/noc20_cs26/progassignment?
name=138)
- ☐ Online Test 1
Question 7
(/noc20_cs26/progassignment?
name=139)
- ☐ Online Test 1
Question 8
(/noc20_cs26/progassignment?
name=140)

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

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

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

