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gauravsharma727545@gmail.com ▾

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

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Unit 10 - Week 4 Quiz

Course
outline

How to access
the portal

Week 1:
Introduction

Week 1 Quiz

Week 2: Basics
of Python

Week 2 Quiz

Week 2
Programming
Assignment

Week 3: Lists,
inductive
function

Week 4 Quiz

The due date for submitting this assignment has passed.

Due on 2019-08-28, 23:59 IST.

Assignment submitted on 2019-08-27, 22:51
IST

All questions carry equal weightage. All Python code is assumed to be executed using Python3. You may submit as many times as you like within the deadline. Your final submission will be graded.

Note:

- If the question asks about a value of type string, remember to enclose your answer in single or double quotes.
- If the question asks about a value of type list, remember to enclose your answer in square brackets and use commas to separate list items.

1) Consider the following Python function.

```
def mystery(l):  
    if l == []:  
        return (l)  
    else:  
        return (l[-1:] + mystery(l[:-1]))
```

definitions, sorting

Week 3 Programming Assignment

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

Week 4 Quiz

- ☒ Quiz : Week 4
Quiz
(assessment?
name=94)

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

Week 7: Classes, objects and user defined datatypes

What does `mystery([31,32,71,18,51])` return?

[51, 18, 71, 32, 31]

Yes, the answer is correct.
Score: 2.5

Accepted Answers:

(Type: Regex Match) `[]*[[]*51[]*,[]*18[]*,[]*71[]*,[]*32[]*,[]*31[]*][]*`

2.5 points

2) What is the value of pairs after the following assignment?

```
pairs = [ (x,y) for x in range(3,0,-1) for y in range(2,0,-1) if (x+y)%3 == 0 ]
```

[(2, 1), (1, 2)]

Yes, the answer is correct.
Score: 2.5

Accepted Answers:

(Type: Regex Match) `[]*\([]*\([]*2[]*,[]*1[]*\)\[]*,[]*\([]*1[]*,[]*2[]*\)\[]*\)[]*`

2.5 points

3) Consider the following dictionary.

2.5 points

```
marks = {"Quizzes":{"Mahesh":[3,5,7,8],"Suresh":[9,4,8,8],"Uma":[9,9,7,6]}, "Exams":{"Mahesh":[37],"Uma":[36]}}
```

Which of the following statements does not generate an error?

- ☐ `marks["Exams"]["Suresh"][0:] = [44]`
☐ `marks["Exams"]["Suresh"].append(44)`
☒ `marks["Exams"]["Suresh"] = [44]`
☐ `marks["Exams"]["Suresh"].extend([44])`

Yes, the answer is correct.
Score: 2.5

Feedback:

Direct assignment to a new key adds a value. All other updates result in KeyError.

Accepted Answers:

`marks["Exams"]["Suresh"] = [44]`

4) Assume that d has been initialized as an empty dictionary:

2.5 points

d = {}

Which of the following generates an error?

- ☐ `d[12] = 5`
☐ `d["1,2"] = 5`
☐ `d[(1,2)] = 5`
☒ `d[[1,2]] = 5`

Yes, the answer is correct.
Score: 2.5

Week 7 Quiz

Week 8: Dynamic programming, wrap-up

Week 8 Programming Assignment

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Online Programming Test - Sample

Online Programming Test 1, 26 Sep 2019, 09:30- 11:30

Feedback:

Key must be an immutable value. List is not OK. Tuple, string and integer are OK.

Accepted Answers:

`d[[1,2]] = 5`