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

Announcements (announcements) **About the Course** (https://swayam.gov.in/nd1_noc19_cs40/preview)

Ask a Question (forum) Progress (student/home) Mentor (student/mentor)

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
definitions,
sorting

Week 3
Programming
Assignment

Week 4: Sorting,
Tuples,

Week 4 Quiz

The due date for submitting this assignment has passed. Due on 2019-08-28, 23:59 IST. As per our records you have not submitted this assignment.

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]))
```

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

No, the answer is incorrect.
Score: 0

Feedback:

Elements are moved from the end of the list to the beginning, so the list gets reversed.

Accepted Answers:

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

**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**

Week 7 Quiz

**Week 8: Dynamic
programming,
wrap-up**

**Week 8
Programming
Assignment**

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Text Transcripts

**Online
Programming
Test - Sample**

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 ]
```

No, the answer is incorrect.

Score: 0

Feedback:

All pairs (i,j) with $i \in \{3,2,1\}$, $j \in \{2,1\}$ such that $i + j$ is a multiple of 3,

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])

No, the answer is incorrect.

Score: 0

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

No, the answer is incorrect.

Score: 0

Feedback:

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

Accepted Answers:

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

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

**Online
Programming
Test 2, 26 Sep
2019, 20:00-22:00**