

# Unit 10 - Week 4 Quiz

## Course outline

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Week 4 Quiz

● Quiz : Week 4 Quiz

Week 4 Programming Assignment

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## Week 4 Quiz

**Due date for this assignment:** 2018-09-13, 23:59 IST.

All questions carry equal weightage. All Python code is assumed to be executed using Python3.

- If the answer to a question is a string, make sure you enclose the value in quotes (either single or double quotes).
- If the answer to a question is a list, make sure you enclose the value in square brackets and separate the values using commas.

You may submit as many times as you like within the deadline. Your final submission will be graded.

1) Consider the following Python function.

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

What does `mystery([13,23,17,81,15])` return?

2.5 points

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

```
pairs = [ (x,y) for x in range(4) for y in range(3) if (x+y)%3 == 0 ]
```

2.5 points

3) Consider the following dictionary.

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

2.5 points

Which of the following statements does not generate an error?

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

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

```
d = {}
```

2.5 points

Which of the following generates an error?

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

You may submit any number of times before the due date. The final submission will be considered for grading.

End