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



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Course
outline

How does an
NPTEL online
course work?

Week 1 :
Introduction

Week 1 Quiz

Week 2: Basics
of Python

Week 2 Quiz

● Quiz: Week 2
Quiz
(assessment?
name=109)

Week 2
Programming

Week 2 Quiz

The due date for submitting this assignment has passed.

Due on 2021-08-18, 23:59 IST.

Score: 10/10=100%

Assignment submitted on 2021-08-11, 20:09 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) One of the following 10 statements generates an error. Which one? (Your answer should be a number between 1 and 10.)

Assignment

Week 3: Lists, inductive 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

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```
x = ["slithy",[7,10,12],2,"tove",1] # Statement 1
y = x[0:50]                         # Statement 2
z = y                               # Statement 3
w = x                               # Statement 4
x[0] = x[0][:5] + 'ery'              # Statement 5
y[2] = 4                             # Statement 6
z[4] = 42                            # Statement 7
w[0][:3] = 'fea'                     # Statement 8
x[1][0] = 5555                       # Statement 9
a = (x[4][1] == 1)                   # Statement 10
```

Yes, the answer is correct.

Score: 2.5

Accepted Answers:

(Type: Numeric) 8

2.5 points

2) Consider the following lines of Python code.

2.5 points

```
b = [23,44,87,100]
a = b[1:]
d = b[2:]
c = b
d[0] = 97
c[2] = 77
```

Which of the following holds at the end of this code?

- ☐ a[1] == 77, b[2] == 77, c[2] == 77, d[0] == 97
- ☐ a[1] == 87, b[2] == 87, c[2] == 77, d[0] == 97
- ☒ a[1] == 87, b[2] == 77, c[2] == 77, d[0] == 97
- ☐ a[1] == 97, b[2] == 77, c[2] == 77, d[0] == 97

Yes, the answer is correct.

Score: 2.5

Feedback:

a[1] == 87, b[2] == 77, c[2] == 77, d[0] == 97

b and c refer to the same list, while a and d are two independent slices. The update to d[0] does not affect any of the other lists, but the update to c[2] is also reflected in b[2].

Accepted Answers:

a[1] == 87, b[2] == 77, c[2] == 77, d[0] == 97

3) What is the value of endmsg after executing the following lines?

```
startmsg = "python"
endmsg = ""
for i in range(1,1+len(startmsg)):
    endmsg = startmsg[-i] + endmsg
```

Yes, the answer is correct.

Score: 2.5

Accepted Answers:

(Type: *Regex Match*) `\s*\'python\'\s*`

(Type: *Regex Match*) `\s*\'python\'\s*`

2.5 points

4) What is the value of `mylist` after the following lines are executed?

```
def mystery(l):  
    l = l[1:]  
    return()
```

```
mylist = [7,11,13]  
mystery(mylist)
```

Yes, the answer is correct.

Score: 2.5

Accepted Answers:

(Type: *Regex Match*) `\s*\[7,11,13\]\s*`

2.5 points