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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
Assignment

Week 3: Lists,
inductive

Week 2 Quiz

Your last recorded submission was on 2021-08-09, 18:46 Due date: 2021-08-18, 23:59 IST. 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.)

```
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
```

2.5 points

2) Consider the following lines of Python code.

2.5 points

function
definitions,
sorting

Week 3
Programming
Assignment

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```
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

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
```

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)
```

2.5 points

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

Submit Answers