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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](https://swayam.gov.in/nd1_noc19_cs40/preview))

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

## Unit 5 - Week 2 Quiz

Course  
outline

How to access  
the portal

**Week 1:**  
**Introduction**

**Week 1 Quiz**

**Week 2: Basics  
of Python**

**Week 2 Quiz**

**Quiz : Week 2  
Quiz  
(assessment?  
name=89)**

**Week 2  
Programming  
Assignment**

**Week 3: Lists,  
inductive  
function  
definitions,  
sorting**

## Week 2 Quiz

**The due date for submitting this assignment has passed. Due on 2019-08-21, 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) One of the following 10 statements generates an error. Which one? (Your answer should be a number between 1 and 10.)

```
x = [1, "abcd", 2, "efgh", [3, 4]] # Statement 1
y = x[0:50] # Statement 2
z = y # Statement 3
w = x # Statement 4
x[1] = x[1] + 'd' # Statement 5
y[2] = 4 # Statement 6
x[1][1] = 'y' # Statement 7
z[0] = 0 # Statement 8
w[4][0] = 1000 # Statement 9
a = (x[4][1] == 4) # Statement 10
```

No, the answer is incorrect.  
Score: 0

**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**

**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**

**Download videos**

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Accepted Answers:  
(Type: Regex Match) `[]*7[ ]`

**2.5 points**

2) Consider the following lines of Python code.

**2.5 points**

```
x = [13,4,17,1000]
w = x[1:]
u = x[1:]
y = x
u[0] = 50
y[1] = 40
```

Which of the following is correct?

- `x[1] == 40, y[1] == 40, w[0] == 4, u[0] == 50`
- `x[1] == 50, y[1] == 40, w[0] == 50, u[0] == 50`
- `x[1] == 4, y[1] == 40, w[0] == 4, u[0] == 50`
- `x[1] == 40, y[1] == 40, w[0] == 50, u[0] == 50`

No, the answer is incorrect.

Score: 0

Feedback:

*(d) `x[1] == 40, y[1] == 40, w[0] == 4, u[0] == 50`*

*x and y refer to the same list, while w and u are two independent slices. The update to u[0] does not affect any of the other names. The update to y[1] is also reflected in x[1].*

Accepted Answers:

`x[1] == 40, y[1] == 40, w[0] == 4, u[0] == 50`

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

```
startmsg = "hello"
endmsg = ""
for i in range(0,len(startmsg)):
    endmsg = startmsg[i] + endmsg
```

No, the answer is incorrect.

Score: 0

Feedback:

`"olleh"`

*The loop reverses the string by inserting each letter in startmsg at the beginning of endmsg.*

Accepted Answers:

(Type: Regex Match) `ls*\'olleh\'ls*`

(Type: Regex Match) `ls*\'olleh\'ls*`

**2.5 points**

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

```
def mystery(l):
    l = l + l
    return()

mylist = [22,34,57]
mystery(mylist)
```

**Online  
Programming  
Test - Sample**

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

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

No, the answer is incorrect.

Score: 0

Feedback:

`[22, 34, 57]`

*The update `l = l + l` inside the function creates a new list, so the list passed as the argument is not changed.*

Accepted Answers:

(Type: *Regex Match*) `l*s*|l*s*22,l*s*34,l*s*57l*s*|l*s*`

**2.5 points**