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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » The Joy of Computing using Python (course)



## Course outline

How does an NPTEL online course work?  
( )

Week 0 ( )

Week 1 ( )

Week 2 ( )

Week 3 ( )

week 4 ( )

Week 5 ( )

● Introduction to Dictionaries  
(unit?  
unit=104&less  
n=105)

● Speech to Text :  
No need to write 01 (unit?  
unit=104&less  
n=106)

● Speech to Text :  
No need to write 02 (unit?  
unit=104&less  
n=107)

● Speech to Text :  
No need to

# Week 5 : Assignment 1

The due date for submitting this assignment has passed.

Due on 2023-03-01, 23:59 IST.

Assignment submitted on 2023-02-22, 19:52 IST

1) Binary search can be applied on \_\_\_\_.

1 point

- ☒ Sorted list  
☐ Unsorted list  
☐ Both A and B  
☐ Any list with any elements

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Sorted list*

2) Which of the following is a Waveform Audio File Format.

1 point

- ☒ Wav  
☒ Wave  
☐ Wv  
☐ Waves

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Wav*

*Wave*

3) Which of the following libraries can help us to convert audio into lyrics?

1 point

- ☒ speech\_recognition  
☐ text\_to\_speech  
☐ speech\_to\_text  
☐ text\_translate



write 03 (unit?  
unit=104&lesso  
n=108)

● Monte Hall : 3  
doors and a  
twist 01 (unit?  
unit=104&lesso  
n=109)

● Monte Hall : 3  
doors and a  
twist 02 (unit?  
unit=104&lesso  
n=110)

● Rock, Paper  
and Scissor :  
Cheating not  
allowed !! 01  
(unit?  
unit=104&lesso  
n=111)

● Rock, Paper  
and Scissor :  
Cheating not  
allowed !! 02  
(unit?  
unit=104&lesso  
n=112)

● Rock, Paper  
and Scissor :  
Cheating not  
allowed !! 03  
(unit?  
unit=104&lesso  
n=113)

○ Rock, Paper  
and Scissor :  
Cheating not  
allowed !! 04  
(unit?  
unit=104&lesso  
n=114)

● Sorting and  
Searching : 20  
questions game  
01 (unit?  
unit=104&lesso  
n=115)

● Sorting and  
Searching : 20  
questions game  
02 (unit?  
unit=104&lesso  
n=116)

● Sorting and  
Searching : 20  
questions game  
03 (unit?

Yes, the answer is correct.

Score: 1

Accepted Answers:

*speech\_recognition*

4) State True or False: In the monte hall problem, swapping the choice does not increase the chance of winning. (For the large number of experiments) **1 point**

- ☐ Swapping will decrease the chance of winning.
- ☒ Swapping will increase the chance of winning.
- ☐ Swapping will not affect the chance of winning.
- ☐ Swapping may or may not increase the chance of winning.

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Swapping will increase the chance of winning.*

5) What is the correct way to initialize a dictionary? **1 point**

- ☐ D = {a:10, b:20, c:30}
- ☐ D = {'a':10, 'b':20, 'c':30}
- ☐ D = {a:10, b:20, c:30}
- ☒ D = {'a':10, 'b':20, 'c':30}

Yes, the answer is correct.

Score: 1

Accepted Answers:

*D = {'a':10, 'b':20, 'c':30}*

6) What is the correct syntax to get all the keys only from a dictionary d? **1 point**

- ☐ d.key()
- ☐ d.item()
- ☐ d.value()
- ☒ d.keys()

Yes, the answer is correct.

Score: 1

Accepted Answers:

*d.keys()*

7) Which of the following is valid?. **1 point**

- ☒ D = {'a': {'a': 10}, 'b': 10}
- ☐ D = {'a': 'a': 10, 'b': 10}
- ☒ D = {'a': {'a': 10}, 'b': {'b': 10}}
- ☐ D = {'a': 'a': 10, 'b': 'b': 10}

Yes, the answer is correct.

Score: 1

Accepted Answers:

*D = {'a': {'a': 10}, 'b': 10}*

*D = {'a': {'a': 10}, 'b': {'b': 10}}*

8) For bubble sort, which of the following statements is true? **1 point**

- ☐ If the list is sorted, the algorithm won't work.
- ☒ In each iteration consecutive pairs of elements are compared with each other.
- ☐ Every element is compared with every other element in the list in each iteration.



unit=104&lesso  
n=117)

● Sorting and  
Searching : 20  
questions game  
04 (unit?  
unit=104&lesso  
n=118)

● Sorting and  
Searching : 20  
questions game  
05 (unit?  
unit=104&lesso  
n=119)

● Sorting and  
Searching : 20  
questions game  
06 (unit?  
unit=104&lesso  
n=120)

● Sorting and  
Searching : 20  
questions game  
07 (unit?  
unit=104&lesso  
n=121)

● Sorting and  
Searching : 20  
questions game  
08 (unit?  
unit=104&lesso  
n=122)

● Week 5  
Feedback  
Form: The Joy  
of Computing  
using Python  
(unit?  
unit=104&lesso  
n=123)

● Quiz: Week 5 :  
Assignment 1  
(assessment?  
name=306)

● Week 5:  
Programming  
Assignment 1  
(/noc23\_cs20/pr  
ogassignment?  
name=307)

● Week 5:  
Programming  
Assignment 2  
(/noc23\_cs20/pr  
ogassignment?  
name=308)

☐ Swapping never happens in bubble sort.

Yes, the answer is correct.

Score: 1

Accepted Answers:

*In each iteration consecutive pairs of elements are compared with each other.*

9) Which error is faced while accessing an element that is not there in a dictionary?

1 point

- ☒ KeyError  
☐ IndexError  
☐ RuntimeError  
☐ ValueError

Yes, the answer is correct.

Score: 1

Accepted Answers:

*KeyError*

10) In dictionaries, d.items() will return \_

1 point

- ☒ Pairs of all (key, value) together.  
☐ All (keys) and (values) separately.  
☐ All (values) and (keys) separately.  
☐ Pairs of all (value, key) together.

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Pairs of all (key, value) together.*



● Week 5:  
Programming  
Assignment 3  
(/noc23\_cs20/progassignment?name=309)

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**Week 6 ()**

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**Week 7 ()**

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**Week 8 ()**

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**Week 9 ()**

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**Week 10 ()**

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**Week 11 ()**

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**Week 12 ()**

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Solving  
Session ()**

