

## Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

Week 4

Week 5

- ☐ Introduction to Dictionaries
- ☐ Speech to Text : No need to write 01
- ☐ Speech to Text : No need to write 02
- ☐ Speech to Text : No need to write 03
- ☐ Monte Hall : 3 doors and a twist 01
- ☐ Monte Hall : 3 doors and a twist 02
- ☐ Rock, Paper and Scissor : Cheating not allowed !! 01
- ☐ Rock, Paper and Scissor : Cheating not allowed !! 02
- ☐ Rock, Paper and Scissor : Cheating not allowed !! 03
- ☐ Rock, Paper and Scissor : Cheating not allowed !! 04
- ☐ Sorting and Searching : 20 questions game 01
- ☐ Sorting and Searching : 20 questions game 02
- ☐ Sorting and Searching : 20 questions game 03
- ☐ Sorting and Searching : 20 questions game 04
- ☐ Sorting and Searching : 20 questions game 05
- ☐ Sorting and Searching : 20 questions game 06
- ☐ Sorting and Searching : 20 questions game 07
- ☐ Sorting and Searching : 20 questions game 08
- ☐ Week 5 Feedback Form: The Joy of Computing using Python

● Quiz: Week 5 : Assignment 1

● Week 5: Programming Assignment 1

● Week 5: Programming Assignment 2

● Week 5: Programming Assignment 3

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

## Week 5 : Assignment 1

The due date for submitting this assignment has passed.

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

Assignment submitted on 2023-02-27, 18:02 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

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.

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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.
- ☐ 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.*

