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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » The Joy Of Computing Using Python (course)

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Course outline

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 5 : Assignment

The due date for submitting this assignment has passed.

Due on 2023-08-30, 23:59 IST.

Assignment submitted on 2023-08-30, 15:06 IST

1) Which is the fastest sorting algorithm?   **1 point**

 ○ Bubble Sort

 ○ Bucket Sort

 ⦿ Quick Sort

 ○ Insertion Sort

Yes, the answer is correct.
Score: 1

Accepted Answers:
Quick Sort

2) How can you remove all items from a dictionary?   **1 point**

 ⦿ dict.clear()

 ○ del dict

 ○ dict.remove_all()

 ○ dict.pop()

Yes, the answer is correct.
Score: 1

Accepted Answers:
dict.clear()

3) What happens if you try to add a new key to a dictionary that already exists?   **0 points**

○ The key and its associated value will be updated.

○ The key and its associated value will be added.

○ The key will be added, but the associated value will remain unchanged.

○ An error will occur.

Yes, the answer is correct.
Score: 0

Accepted Answers:
The key and its associated value will be updated.

4) Which of the following is true about dictionaries?   *1 point*

○ There can be multiple same keys.

○ Every value must be unique.

◉ Every key must be unique.

○ We can't get every key from the dictionary.

Yes, the answer is correct.
Score: 1

Accepted Answers:
Every key must be unique.

5) What is the syntax to create a dictionary?   *1 point*

○ D = []

◉ D = {}

○ D = ()

○ D = dictionary()

Yes, the answer is correct.
Score: 1

Accepted Answers:
D = {}

6) What will be the output of the following code?   *1 point*

```
1   d = {'a': 20, 'b':30, 'c': 50}
2
3   print(d.items())
```

○ 'a' 'b' 'c'

○ 20 30 50

◉ ('a', 20), ('b', 30), ('c', 50)

○ ('a', 'b', 'c') (20, 30, 50)

Yes, the answer is correct.
Score: 1

Accepted Answers:
('a', 20), ('b', 30), ('c', 50)

7) In the Monte Hall Problem, what is the probability of winning if you switch doors   *1 point*
after the host reveals a goat behind one of the other doors?

○ 1/3

○ 1/2

◉ 2/3

○ 3/4

Yes, the answer is correct.
Score: 1

Accepted Answers:
2/3

8) In the Monte Hall Problem, what is the probability of winning if you do not switch **1 point**
doors after the host reveals a goat behind one of the other doors?

◉ 1/3

○ 1/2

○ 2/3

○ 3/4

Yes, the answer is correct.
Score: 1

Accepted Answers:
1/3

9) What is the name of the game show that the Monte Hall Problem was based on? **1 point**

○ Jeopardy

○ Wheel of Fortune

○ The Price is Right

◉ Let's Make a Deal

Yes, the answer is correct.
Score: 1

Accepted Answers:
Let's Make a Deal

10) Which module in Python can be used for Speech to Text conversion? **1 point**

◉ SpeechRecognition

○ PyAudio

○ Wave

○ all of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
SpeechRecognition