



Courses » The Joy of Computing using Python

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Unit 7 - Week 5: Cool Ideas (Part 3)

Course outline

How to access the portal

Pre-requisite assignment

Week 1: Introduction

Week 2: Introduction to Python

Week 3: Cool Ideas (Part 1)

Week 4: Cool Ideas (Part 2)

Week 5: Cool Ideas (Part 3)

- 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

Assignment 5

The due date for submitting this assignment has passed. **Due on 2018-09-14, 23:59 IST.**

Assignment submitted on 2018-09-12, 23:28 IST

1) What happens when you search for 35 in the list [10,20,30,40,50]?

1 point

- ☒ The program would handle the case by printing a suitable message that the element is not found
- ☐ The value 30 is returned as it is the closest number less than 35 that is present in the list
- ☐ The value 40 is returned as it is the closest number greater than 35 that is present in the list
- ☐ The program will abruptly come to an end without intimating anything to the user.

Yes, the answer is correct.**Score: 1****Accepted Answers:***The program would handle the case by printing a suitable message that the element is not found*

2) Which of the following constraint needs to be satisfied so as to perform binary search?

1 point

- ☐ The list must contain only numbers
- ☐ The list must contain odd number of elements
- ☐ The list must contain even number of elements
- ☒ The list must be sorted.

Yes, the answer is correct.**Score: 1****Accepted Answers:***The list must be sorted.*

3) What will be the final list contents after the list [10,25,40,70,100] has been passed to a function that sorts the elements of a given list in ascending order?

1 point

- ☒ [10,25,40,70,100]
- ☐ [100,70,40,25,10]
- ☐ [25,10,40,70,100]
- ☐ [10,25,40,100,70]

Yes, the answer is correct.**Score: 1****Accepted Answers:***[10,25,40,70,100]*

4) What does the following snippet do when a list 'a' is passed to it?

1 point

- 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
- Programming Assignment 1: Dictionary
- Programming Assignment 2: Robot and the Charger
- Programming Assignment 3: Function and Dictionary
- Quiz : Assignment 5
- Week 5 Feedback

```
for i in range( len(a) ):
    for j in range(i+1, len (a) ):
        if a[ i ]<a[ j ]:
            a[ i ] , a[ j ]=a[ j ] , a[ i ]
```

- ☐ It checks if the elements of a given list are in ascending order
☐ It checks if the elements of a given list are in descending order
☐ It sorts the elements of a given list in ascending order
☒ It sorts the elements of a given list in descending order

Yes, the answer is correct.

Score: 1

Accepted Answers:

It sorts the elements of a given list in descending order

5) In Rock, Paper, Scissors game, how many ways can the result be a draw?

- ☒ 3
☐ 6
☐ 9
☐ 12

Yes, the answer is correct.

Score: 1

Accepted Answers:

3

6) What should you choose in the Rock Paper Scissor game so that you can definitely guarantee your win?

- ☐ Rock
☐ Paper
☐ Scissor
☒ None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

None of the above

7) Consider the **secure** Rock Paper Scissors game.

Assume for both the players:

0->Rock

1->Paper

2 ->Scissors

Player 1's input : 1000010210

Player 2's input : 1012010211

Who won?

- ☒ Player 1
☐ Player 2
☐ Draw
☐ Data insufficient and hence winner cannot be determined.

No, the answer is incorrect.

Score: 0

Accepted Answers:

Data insufficient and hence winner cannot be determined.



1 point

1 point

1 point

Week 6: Cool Ideas (Part 4)

Week 7: Cool Ideas(Part 5)

Week 8: Cool Ideas(Part 6)

Week 9: Cool Ideas(Part 7)

Week 10: Cool Ideas(Part 8)

Week 11

Week 12

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8) Consider this run of **secure** Rock Paper Scissor game:

1 point

No of digits used :10

Assume for player 1:

0->Rock

1->Paper

2->Scissors

Secret place holder position: 3rd digit from the left

Assume for player 2:

0->Scissors

1->Rock

2->Paper

Secret place holder position: 7th digit from the left

Inputs:

Player 1: 1200210121

Player 2: 1020201120

Who won?

- ☐ Player 1
- ☐ Player 2
- ☒ Draw

Yes, the answer is correct.

Score: 1

Accepted Answers:

Draw

9) Which file format is supported by Python Speech Recognition library?

1 point

- ☐ mp3
- ☒ wav
- ☐ aiff
- ☐ au

Yes, the answer is correct.

Score: 1

Accepted Answers:

wav

10) In the simple Monte Hall game, we had 3 doors and 1 door contained a prize. The player has to guess which door could possibly contain the prize. That door would be opened and if it contains the prize he wins it. **1 point**

If more doors are added, the player has more choices to guess. What do you think will happen to the probability (i.e. chance) of winning if more doors are added?

- ☒ Increases
- ☐ Decreases
- ☐ No change

No, the answer is incorrect.

Score: 0

Accepted Answers:

Decreases



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