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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

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

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

● Speech to Text : No need to

Week 5: Assignment 5

The due date for submitting this assignment has passed.

Due on 2021-09-01, 23:59 IST.

Assignment submitted on 2021-08-31, 06:19 IST

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

```
dict1={
    "ID":"0121",
    "Name":"zzz"
}
dict2={
    "Name":"ZZZ"
}

dict2.update({"ID":"0121"})
if(dict1==dict2):
    print("They are equal")
else:
    print("They are not equal")
```

○ They are equal

◉ They are not equal

○ It will throw an error

Yes, the answer is correct.
Score: 1

Accepted Answers:
They are not equal

2) What will the output of the following program be?   **1 point**

```
dictA={
    "name":"Joy of computing",
    "Length":"12 Weeks",
    "Professor_name":"Dr Sudarshan Iyengar",
    "Language":"Python"
}
dictB={
}
dictB.update(dictA)
for x,y in dictB.items():
    print(x,y)
```

⦿
name Joy of computing
Length 12 Weeks
Professor_name Dr Sudarshan Iyengar
Language Python

○ {'name': 'Joy of computing', 'Length': Sudarshan Iyengar', 'Language': 'Python'}

○ It will throw an error

○ dictB will be empty

Yes, the answer is correct.
Score: 1

Accepted Answers:
name Joy of computing
Length 12 Weeks
Professor_name Dr Sudarshan Iyengar
Language Python

3) A file with the .wav or .wave file extension is a Waveform Audio File Format. True or   **1 point**
False?

○ False

⦿ True

Yes, the answer is correct.
Score: 1

Accepted Answers:
True

4) In the Monty Hall problem, under the standard assumptions, contestants who switch **1 point** have a ___ chance of winning the car, while contestants
who stick to their initial choice have only ___chance.

○ 1/2, 1/2
◉ 2/3, 1/3
○ 1/3, 2/3
○ 1/3, 1/3

Yes, the answer is correct.
Score: 1
Accepted Answers:
2/3, 1/3

5) In the game 'Rock, Paper and Scissor' , if player1 enters 123478 and player2 enters **1 point** 347653 with the secrets bits as 3 and 5 respectively, then who wins the game? (Assume that player1_list=["rock", "paper", "scissor"] and player2_list=["paper" ,"scissor", "rock"])

○ Player1 wins the game
○ Player2 wins the game
◉ It will be a draw
○ Insufficient data

Yes, the answer is correct.
Score: 1
Accepted Answers:
It will be a draw

6) 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

7) Which of these following statements are true with respect to the program below? **1 point**

```python
import random
a=[1,2,3,4,5,6]
sum=0
for i in range (0,2):
    sum=sum+random.choice(a)
print(sum)
```

sum
(/noc21_cs75/progassignment?
name=305)

○ Week 5
Feedback
Form: The Joy
of Computing
using Python
(unit?
unit=104&lesson=123)

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

Text Transcripts

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Live Session

**October 10
Programming
test - Session 1
(10AM to 11AM)**

**October 10
Programming
test - Session 2
(8PM to 9PM)**

○ The value of sum will always be between 1 and 11

◉ The value of sum will be from 2 to 12

○ The value of sum will be within 12

○ The maximum value of sum cannot exceed 6

Yes, the answer is correct.
Score: 1
Accepted Answers:
The value of sum will be from 2 to 12

8) What is the average time complexity of binary search if the numbers are arranged in   *1 point*
descending order and the search is unsuccessful?

○ $\log_2 (n+1)$

◉ $\log_2 (n)$

○ $\log_2 (n\text{^}2)$

○ None of the following

Yes, the answer is correct.
Score: 1
Accepted Answers:
$\log_2 (n)$

9) What Is the output of the following program?   *0 points*

```python
l=[]*100
for i in range (100):
    l.append(i+1)
flag=0
k=108
for i in range(100):
    if(k==l[i]):
        print("Element is present at position ",i)
        flag=1
        break
if(flag==0):
    print("Element is not present in the given list")
```

○ 100

◉ 0

○ 108

○ 109

No, the answer is incorrect.
Score: 0

Accepted Answers:
100

10) Will the following program give an error?   **1 point**

```
a=["1", "2", "3", "4", "5"]
fun=len
print(fun(a))
```

○ Yes

◉ No

Yes, the answer is correct.
Score: 1

Accepted Answers:
No