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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

○ Tuples- Python Data Structure (unit? unit=165&lesson=166)

Week 8 : Assignment 8

The due date for submitting this assignment has passed.
Due on 2021-09-22, 23:59 IST.

Assignment submitted on 2021-09-21, 05:19 IST

1) Tuples are similar to lists in terms of indexing, nested objects and repetition but it is immutable unlike lists. State whether the above statement is true or false.   *1 point*

◉ True
○ False

Yes, the answer is correct.
Score: 1
Accepted Answers:
True

2) Which of these following operations are not valid with respect to tuples?   *1 point*
(Consider tuple names to be T1 and T2 with 5 elements in each of it)

○ print(T1 + T2)
○ print(T1 * 3)
○ print(T1 [-4 : -1])
◉ del T1 [1]

Yes, the answer is correct.
Score: 1
Accepted Answers:
del T1 [1]

3) What is the output of the following program?   **1 point**

```
t=(1 , 2 , 3)
(a, b, c)=t
print(a,b,c)
```

- ⦿ 1 2 3
- ○ Error
- ○ a b c
- ○ t t t

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

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

```
import random
i=random. randint(1,100)
if(i%3==0):
    print(i)
```

- ○ It generates a random number and prints it
- ○ It generates a random number and doesn't do anything
- ○ It will generate a random number and prints it
- ⦿ It will generate a random number and prints it only if its a multiple of 3

Yes, the answer is correct.
Score: 1
Accepted Answers:
It will generate a random number and prints it only if its a multiple of 3

5) Which of these statements are false with respect to clahe?   **1 point**

- ○ CLAHE is a variant of Adaptive histogram equalization (AHE) which takes care of over-amplification of contrast.
- ○ CLAHE operates on small regions in the image, called tiles, rather than the entire image.
- ⦿ The neighbouring tiles are then combined using bilinear interpolation by including the artificial boundaries.

○ It is used to improve the contrast of images.

Yes, the answer is correct.
Score: 1
Accepted Answers:
The neighbouring tiles are then combined using bilinear interpolation by including the artificial boundaries.

6) What is the output of the following program?   **1 point**

```python
import matplotlib.pyplot as plt
x=[]
y=[]
for i in range (1,11):
    x.append(i)
    y.append(i)

x.reverse()
print(x)
print (y)
plt.plot(y,x)
```

○ Linear graph with positive slope
◉ Linear graph with negative slope
○ Non linear graph with positive slope
○ Non linear graph with negative slope

Yes, the answer is correct.
Score: 1
Accepted Answers:
Linear graph with negative slope

7) What should be filled in the blank in the given program to obtain the below desired output?   **0 points**

Output :

	calories	duration
0	420	50
1	380	40
2	390	45

```
import pandas as tiger

data = {
    "calories": [420, 380, 390],
    "duration": [50, 40, 45]
}

myvar = _____

print(myvar)
```

◉ pandas.DataFrame(data)

○ tiger.DataFrames(data)

○ tiger.Series(data)

○ pandas.Series(data)

No, the answer is incorrect.
Score: 0

Accepted Answers:
tiger.DataFrames(data)

8) VADER uses a combination of A sentiment lexicon is a list of lexical features which are **1 point**
generally labeled according to their semantic orientation as either positive or negative. State
whether the following statement is true or false.

◉ True

○ False

Yes, the answer is correct.
Score: 1

Accepted Answers:
True

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

```
a=input()
if(a==a[::-1]):
    print(a)
```

○ Prints the reverse of string a

○ Prints the string only if its an anagram

◉ Prints the string only if its a palindrome

○ Error message

Yes, the answer is correct.
Score: 1

Accepted Answers:
Prints the string only if its a palindrome

10) If the compound score of a statement is 1.5. What can we infer from the compound **1 point** statement?

○ It is an extremely positive statement

○ It is and extremely negative statement

○ It is a neutral statement

◉ Compound score cannot be 1.5

Yes, the answer is correct.
Score: 1

Accepted Answers:
Compound score cannot be 1.5