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rohit3888kumar@gmail.com ▾

 NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » The Joy of Computing using Python (course)


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]

☐ Lottery
Simulation -
Profit or Loss
(unit?
unit=165&lesson=167)

☐ Lottery
Simulation -
Profit or Loss -
Part 01 (unit?
unit=165&lesson=168)

☐ Lottery
Simulation -
Profit or Loss -
Part 02 (unit?
unit=165&lesson=169)

☐ Lottery
Simulation -
Profit or Loss -
Part 03 (unit?
unit=165&lesson=170)

☐ Lottery
Simulation -
Profit or Loss -
Part 04 (unit?
unit=165&lesson=171)

☐ Lottery
Simulation -
Profit or Loss -
Part 05 (unit?
unit=165&lesson=172)

☐ Lottery
Simulation -
Profit or Loss -
Part 06 (unit?
unit=165&lesson=173)

☐ Image
Processing -
Enhance your
images (unit?
unit=165&lesson=174)

☐ Image
Processing -
Enhance your
images - Part
01 (unit?
unit=165&lesson=175)

☐ Image
Processing -
Enhance your
images - Part

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.

02 (unit?
unit=165&lesson=176)

☐ Image
Processing -
Enhance your
images - Part
03 (unit?
unit=165&lesson=177)

☐ Anagrams
(unit?
unit=165&lesson=178)

☐ Anagrams -
Part 01 (unit?
unit=165&lesson=179)

☐ Anagrams -
Part 02 (unit?
unit=165&lesson=180)

☐ Anagrams -
Part 03 (unit?
unit=165&lesson=181)

☐ Facebook
Sentiment
Analysis (unit?
unit=165&lesson=182)

☐ Facebook
Sentiment
Analysis - Part
01 (unit?
unit=165&lesson=183)

☐ Facebook
Sentiment
Analysis - Part
02 (unit?
unit=165&lesson=184)

☐ Facebook
Sentiment
Analysis - Part
03 (unit?
unit=165&lesson=185)

☐ Facebook
Sentiment
Analysis - Part
04 (unit?
unit=165&lesson=186)

☐ Week 8
Feedback
Form: The Joy
of Computing
using Python

☐ 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

```
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)
plt.show()
```

- ☐ 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

(unit?
unit=165&lesson=187)

● **Quiz: Week 8 :
Assignment 8
(assessment?
name=316)**

● Week 8:
Programming
Assignment 1 -
Palindrome
(/noc21_cs75/progassignment
name=317)

● Week 8:
Programming
Assignment 2 -
Anagrams
(/noc21_cs75/progassignment
name=318)

● Week 8:
Programming
Assignment 3 -
Pangram
(/noc21_cs75/progassignment?
name=319)

Week 9

Week 10

Week 11

Week 12

Text Transcripts

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Videos**

Live Session

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

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

```
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 statement? **1 point**

- ☐ 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