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<https://swayam.gov.in>https://swayam.gov.in/nc_details/NPTEL

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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » The Joy of Computing using Python (course)Course
outlineHow 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 9

Week 10

Week 10 : Assignment 10

The due date for submitting this assignment has passed.

Due on 2021-10-06, 23:59 IST.

Assignment submitted on 2021-10-06, 06:25 IST

1) Classify the following types of compressed image files as lossy or lossless
compression type.**1 point**

(1) PNG

(2) JPEG

☒ (1) Lossless

(2) Lossey

☐ (1) Lossey

(2) Lossless

☐ (1) Lossless

(2) Lossless

☐ (1) Lossey

(2) Lossey

Yes, the answer is correct.

Score: 1

Accepted Answers:

(1) Loss/less

(2) Lossey

2) Compression can be used to reduce or change file size and which of these following
attributes?**1 point**☐ File type

☐ FLAMES - Part 01 (unit? unit=214&lesson=215)

☐ FLAMES - Part 02 (unit? unit=214&lesson=216)

☐ FLAMES - Part 03 (unit? unit=214&lesson=217)

☐ FLAMES - Part 04 (unit? unit=214&lesson=218)

☐ FLAMES - Part 05 (unit? unit=214&lesson=219)

☐ FLAMES - Part 06 (unit? unit=214&lesson=220)

☐ Data Compression - Part 01 (unit? unit=214&lesson=221)

☐ Data Compression - Part 02 (unit? unit=214&lesson=222)

☐ Data Compression - Part 03 (unit? unit=214&lesson=223)

☐ Data Compression - Part 04 (unit? unit=214&lesson=224)

☐ Data Compression - Part 05 (unit? unit=214&lesson=225)

☐ Week 10 Feedback Form: The Joy of Computing using Python (unit? unit=214&lesson=226)

☐ Quiz: Week 10 : Assignment 10

- ☐ Resolution
- ☒ Bit depth
- ☐ All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:

All of the above

3) NumPy is a python library written partially in python and most parts that require fast computation are written in C or C++. State whether the following statement is true or false.

1 point

- ☒ True
- ☐ False

Yes, the answer is correct.
Score: 1

Accepted Answers:

True

4) What is the output of the following program ?

1 point

```
import numpy as np
arr=np.array([[1,2,3,4,5,6],[6,5,4,3,2,1]])
print(arr[1,-5])
```

- ☒ 5
- ☐ 2
- ☐ 2
- ☐ Error message

Yes, the answer is correct.
Score: 1

Accepted Answers:

5

5) What is the output of the following program?

1 point

- ☒ eo ae a oo a
- ☐ oe ae a oo a
- ☐ ae ae a oo a
- ☐ None of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:

eo ae a oo a

6) What is the output of the following program?

1 point

- ☒ Wloet o fCmuigCus
- ☐ ecm t Jyo CmuigCus

(assessment?
name=326)

☐ Week 10 :
Programming
Assignment 1 -
String
Decomposition
(/noc21_cs75/progassignment?
name=331)

☐ Week 10 :
Programming
Assignment 2 -
Encryption
(/noc21_cs75/progassignment?
name=332)

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)**

- ☐ Welcome to Joy of Computing Course
- ☐ None of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
Wloet o fCmuigCus

7) What will the following function in the program do?

1 point

- ☐ Reverse all the strings in the sentence
- ☒ Reverse the sentence
- ☐ Reverse the first word of the sentence.
- ☐ None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
None of the above

8) Which of these methods can be used to transpose a matrix X?

1 point

- ☐ X.Transpose()
- ☒ X.T
- ☐ X.t()
- ☐ X.transpose

Yes, the answer is correct.
Score: 1

Accepted Answers:
X.T

9) What will the following program print?

1 point

- ☐ We cannot reshape the array.
- ☒ `[[1 2 3]
[4 5 6]
[7 8 9]
[10 11 12]]`
- ☐ `[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]`

Yes, the answer is correct.
Score: 1

Accepted Answers:
*[[1 2 3]
[4 5 6]
[7 8 9]
[10 11 12]]*

10) What is the output of the following program?

1 point

- ☐ 7
- ☐ 12
- ☐ 10
- ☒ 21

Yes, the answer is correct.

Score: 1

Accepted Answers:

21