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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 ()

Week 9 ()

Week 10 ()

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

● FLAMES - Part 02 (unit?

Week 10 : Assignment 1

The due date for submitting this assignment has passed.

Due on 2023-04-05, 23:59 IST.

Assignment submitted on 2023-04-05, 22:01 IST

1) Which math problem flames is related to?

1 point

- ☐ kadane's problem
- ☒ Josephus problem
- ☐ Conjecture Collatz
- ☐ Dijkstra Problem

Yes, the answer is correct.

Score: 1

Accepted Answers:

Josephus problem

2) What will be the output of the following list slicing.

1 point

```
1 s = 'The Joy of Computing'
2
3 print(s[3:12])
```

- ☐ 'Joy of C'
- ☒ ' Joy of C'
- ☐ 'Joy of Co'
- ☐ ' Joy of Co'

Yes, the answer is correct.

Score: 1

Accepted Answers:

' Joy of C'

3) What will be the output of the following program?

1 point

unit=214&lesso
n=216)

● FLAMES - Part
03 (unit?
unit=214&lesso
n=217)

● FLAMES - Part
04 (unit?
unit=214&lesso
n=218)

● FLAMES - Part
05 (unit?
unit=214&lesso
n=219)

● FLAMES - Part
06 (unit?
unit=214&lesso
n=220)

● Data
Compression -
Part 01 (unit?
unit=214&lesso
n=221)

● Data
Compression -
Part 02 (unit?
unit=214&lesso
n=222)

● Data
Compression -
Part 03 (unit?
unit=214&lesso
n=223)

● Data
Compression -
Part 04 (unit?
unit=214&lesso
n=224)

● Data
Compression -
Part 05 (unit?
unit=214&lesso
n=225)

○ Week 10
Feedback
Form: The Joy
of Computing
using Python
(unit?
unit=214&lesso
n=226)

● Quiz: Week 10
: Assignment 1
(assessment?
name=327)

```
1 s = 'I am amazed'
2 s.replace('a', 'z')
3 print(s)
```

- ☐ I zm zmzzed
- ☐ I zm zmazed
- ☐ I am zmzzed
- ☒ I am amazed

Yes, the answer is correct.
Score: 1

Accepted Answers:
I am amazed

4) What are the consequences of image compression? **1 point**

- ☒ Less size
- ☒ Lower quality
- ☐ More size
- ☐ Higher quality

Yes, the answer is correct.
Score: 1

Accepted Answers:
Less size
Lower quality

5) what is the output of the following code? **1 point**

```
1 import numpy as np
2
3 a = np.array([1,2,3,4,5,6,7,8,9,10,11,12])
4 print(a.reshape(3,4))
5
```

- ☒
[[1 2 3 4]
[5 6 7 8]
[9 10 11 12]]
- ☐
[[1 2 3]
[4 5 6]
[7 8 9]
[10 11 12]]
- ☐ Error
- ☐
[[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]]

● Week 10:
Programming
Assignment 1
(/noc23_cs20/pr
ogassignment?
name=328)

● Week 10:
Programming
Assignment 2
(/noc23_cs20/pr
ogassignment?
name=329)

● Week 10:
Programming
Assignment 3
(/noc23_cs20/pr
ogassignment?
name=330)

Week 11 ()

Week 12 ()

**Text
Transcripts ()**

**Download
Videos ()**

Books ()

**Live Session
()**

**Problem
Solving
Session ()**

6) What will be the output of the following code?

1 point

```
1 import numpy as np
2
3 b = np.array([[1,2],[3,4]])
4
5 print(np.sum(b, axis = 1))
```

- ☐ [4 6]
☒ [3 7]
☐ [3 4]
☐ None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

[3 7]

7) Amongst which of the following is / are the method of list?

1 point

- ☐ append()
☐ extend()
☐ insert()
☒ All of the mentioned above

Yes, the answer is correct.

Score: 1

Accepted Answers:

All of the mentioned above

8) The output of the following program will be?

1 point

```
1
2
3 word = 'Python'
4 word[2] = 'n'
5
6 print(word)
```

- ☐ Pynhon
☐ Pnthon
☐ Python
☒ Error

Yes, the answer is correct.

Score: 1

Accepted Answers:

Error

9) Which of the following is not a method in string?

1 point

- ☐ lower()
☐ upper()
☐ isalpha()
☒ insert()

Yes, the answer is correct.

Score: 1

Accepted Answers:

insert()

10) What is the output of the following code?

1 point

```
1 s = 'Hello Everyone'
2 print(s.lower())
3
```

- ☐ HELLO EVERYONE
- ☐ Hello Everyone
- ☐ helloeveryone
- ☒ hello everyone

Yes, the answer is correct.

Score: 1

Accepted Answers:

hello everyone