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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Python for Data Science (course)


Course outline

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

- Jupyter setup (unit? unit=30&lesson=31)
- Sequence_data_part_1 (unit? unit=30&lesson=32)
- Sequence_data_part_2 (unit? unit=30&lesson=33)
- Sequence_data_part_3 (unit? unit=30&lesson=34)
- Sequence_data_part_4 (unit? unit=30&lesson=35)
- Numpy (unit?)

Week 2: Assignment 2

The due date for submitting this assignment has passed.

Due on 2023-02-08, 23:59 IST.

As per our records you have not submitted this assignment.

1) What will be the output of the following:

1 point

```
c = np.arange(start= 1, stop=7).reshape(2, 3)
print(c)

d = np.array([[1, 2, 3], [4, 5, 6]])

print(np.add(c, d))
```

☐ `[[2 6 10]`

`[4 8 12]]`

☐ `[[2 4 6]`

`[8 10 12]]`

☐ `[[2 4]`

`[6 8]`

`[10 12]]`

☐ `[[2 8]`

`[4 10]`

`[6 12]]`

No, the answer is incorrect.

Score: 0

Accepted Answers:

`[[2 4 6]`

`[8 10 12]]`

2) Let t1 = (1, 2, "tuple", 4) and t2 = (5, 6, 7). Which of the following will not give any error after the execution?

1 point

unit=30&lesson=36)

● Week 2 :
Lecture slides
(unit?
unit=30&lesson=37)

● Week 2 -
FAQs (unit?
unit=30&lesson=38)

○ Practice: Week
2: Practice
Assignment 2
(assessment?
name=95)

● Week 2
Feedback
Form : Python
for Data
Science (unit?
unit=30&lesson=99)

○ Quiz: Week 2:
Assignment 2
(assessment?
name=103)

Week 3 ()

Week 4 ()

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Transcripts ()**

☐ t1.append(5)

☐ x = t2[t1[1]]

☐ t3 = t1 + t2

☐ t3 = (t1, t2)

☐ t3 = (list(t1), list(t2))

No, the answer is incorrect.

Score: 0

Accepted Answers:

x = t2[t1[1]]

t3 = t1 + t2

t3 = (t1, t2)

t3 = (list(t1), list(t2))

3) Let d1 = {1 : "Python", 2 : [1, 2, 3]}. Which among the following will not give the error **1 point** after the execution?

☐ d1[2].append(4)

☐ x = d1[0]

☐ d1["one"] = 1

☐ d1.update({'one' : 2})

No, the answer is incorrect.

Score: 0

Accepted Answers:

d1[2].append(4)

d1["one"] = 1

d1.update({'one' : 2})

4) S1 = {1, 2, 3}

S2 = {5, 6, 3}

S1.add(4)

S2.add("4")

1 point

What will be the output of S1 - S2?

☐ {1, 2, 3}

☐ {1, 2, 3, 4}

☐ {1, 2, "4"}

☐ {1, 2, 4}

No, the answer is incorrect.

Score: 0

Accepted Answers:

{1, 2, 4}

5) S1 = "Hello" and S2 = "World". Which of the following will not return "Hello world"? **1 point**

☐ S1 + " " + S2

☐ S1[0 :] + " " + S2[0 :]

☐ "{} {}".format(S1, S2)

☐ S1[: -1] + " " + S2[: -1]

No, the answer is incorrect.

Score: 0

Accepted Answers:

`S1[: -1] + " " + S2[: -1]`

6) Given a NumPy array, `arr = np.array([[1, 9, 10], [3, 7, 6], [12, 8, 0]])`, find the correct command from the following options to get an output array as `[16 24 16]`?

1 point

- ☐ `arr[1: 2]`
- ☐ `np.sum(arr, axis = 0)`
- ☐ `np.sum(arr, axis = 1)`
- ☐ `np.sum([[1, 9, 10], [3, 7, 6], [12, 8, 0]])`

No, the answer is incorrect.

Score: 0

Accepted Answers:

`np.sum(arr, axis = 0)`

7) `mat = np.matrix("5, 9, 10; 2, 5, 4; 1, 9, 8; 2, 6, 8")`
`mat1 = np.matrix("1, 2, 3, 4")`
`mat2 = np.insert(mat, 1, mat1, axis= 1)`
`print(mat2)`

0 points

What will be the output of the above command?

- ☐ `[[5 2 1 2]`
`[1 2 3 4]`
`[9 5 9 6]]`
`[10 4 8 8]]`
- ☐ `[[1 2 3 4]`
`[5 2 1 2]`
`[9 5 9 6]]`
`[10 4 8 8]]`
- ☐ `[[5 1 9 10]`
`[2 2 5 4]`
`[1 3 9 8]]`
`[2 4 6 8]]`
- ☐ It will give an error.

No, the answer is incorrect.

Score: 0

Accepted Answers:

It will give an error.

8) `student = {'name': 'Jane', 'age': 25, 'courses': ['Math', 'Statistics']}`
 Which among the following will return
`{'name': 'Jane', 'age': 26, 'courses': ['Math', 'Statistics'], 'phone': '123-456'}`

1 point

- ☐ `student.update({'age': 26})`
- ☐ `student.update({'age': 26, 'phone': '123-456'})`
- ☐ `student['phone'] = '123-456'`
`student.update({'age': 26})`
- ☐ None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

student.update({'age': 26, 'phone': '123-456'})

student['phone'] = '123-456'

student.update({'age': 26})

9) `c = np.arange(start = 1, stop = 20, step = 3)`. What is `c[5]`?

1 point

☐ 13

☐ 16

☐ 15

☐ 12

No, the answer is incorrect.

Score: 0

Accepted Answers:

16

10) Which of the following data type is immutable?

1 point

☐ list

☐ set

☐ tuple

☐ dictionary

No, the answer is incorrect.

Score: 0

Accepted Answers:

tuple