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



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Course outline

About
NPTEL ()

How does an
NPTEL
online
course
work? ()

Week 0 ()

Week 1 ()

Week 2 ()

- ☐ Jupyter setup
(unit?
unit=30&lesso
n=31)

Week 2: Assignment 2

The due date for submitting this assignment has passed.

Due on 2025-02-05, 23:59 IST.

As per our records you have not submitted this assignment.

1) Which of the following object does not support indexing?

1 point

- ☐ tuple
- ☐ list
- ☐ dictionary
- ☐ set

No, the answer is incorrect.

Score: 0

Accepted Answers:

set

2) How can you concatenate the strings "data" and "science" with a hyphen(-) between them?

2 points

- ☐ "data".join("science")
- ☐ "-".join(["data", "science"])
- ☐ "data" + "-" + "science"
- ☐ None of the above.

No, the answer is incorrect.

Score: 0

Accepted Answers:

"-".join(["data", "science"])
"data" + "-" + "science"

● Sequence_dat
a_part_1
(unit?
unit=30&lesso
n=32)

● Sequence_dat
a_part_2
(unit?
unit=30&lesso
n=33)

● Sequence_dat
a_part_3
(unit?
unit=30&lesso
n=34)

○ Sequence_dat
a_part_4
(unit?
unit=30&lesso
n=35)

● Numpy (unit?
unit=30&lesso
n=36)

○ Week 2 :
Lecture slides
(unit?
unit=30&lesso
n=37)

○ Week 2 -
FAQs (unit?
unit=30&lesso
n=38)

○ Quiz: Week 2:
Assignment 2
(assessment?
name=154)

○ Week 2
Feedback
Form : Python
for Data
Science (unit?
unit=30&lesso
n=114)

○ Practice: Week
2: Practice
Assignment 2
(assessment?
name=157)

Week 3 ()

3) What will be the output of the following code snippet?

2 points

```
import numpy as np
a = np.array([[1, 2], [3, 4]])
b = np.array([[5, 6], [7, 8]])
c = np.dot(a, b)
print(c)
```

☐ [[5 12]

[21 32]]

☐ [[19 22]

[43 50]]

☐ [[3 8]

[35 56]]

☐ [[5 21]

[12 32]]

No, the answer is incorrect.

Score: 0

Accepted Answers:

[[19 22]

[43 50]]

4) What will be the output of the following code snippet?

2 points

```
import numpy as np
a = np.arange(10)
b = a[1:5]
b[0] = 10
print(a)
```

☐ [1 10 3 4 5 6 7 8 9 10]

☐ [10 1 2 3 4 5 6 7 8 9]

☐ [0 10 2 3 4 5 6 7 8 9]

☐ [10 2 3 4 5 6 7 8 9]

No, the answer is incorrect.

Score: 0

Accepted Answers:

[0 10 2 3 4 5 6 7 8 9]

5) What is the output of the following code?

2 points

```
s = {1, 2, 4, 5}
l = []

for i in range(len(s)):
    l += [1+i]
print(l)
```

☐ [2, 3, 4, 5]

Week 4 ()

Supporting material for Week 4 ()

Download Videos ()

Books ()

Text Transcripts ()

Problem Solving Session - Jan 2025 ()

- ☐ [0, 1, 2, 3]
- ☐ [1, 2, 3, 4]
- ☐ Will throw an error: Set objects are not iterable.

No, the answer is incorrect.

Score: 0

Accepted Answers:

[1, 2, 3, 4]

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

1 point

```
A = {1, 'two', 3.0, 3, 27.5, 'four', 5}
```

```
B = {27.5, 10}
```

```
print(A | B)
```

- ☐ {27.5}
- ☐ {1, 'four ', 3.0, 3, 5, 'two ', 10, 27.5}
- ☐ {1, 'four ', 3.0, 5, 'two ', 10, 27.5}
- ☐ {1, 'four ', 3.0, 5, 'two ', 3}

No, the answer is incorrect.

Score: 0

Accepted Answers:

{1, 'four ', 3.0, 5, 'two ', 10, 27.5}

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

- ☐ `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))
```

8) Let $d = \{1 : \text{"Python"}, 2 : [1, 2, 3]\}$. Which among the following will not give the error **2 points** after the execution?

- ☐ `d[2].append(4)`
- ☐ `x = d[0]`
- ☐ `d["one"] = 1`
- ☐ `d.update({'one' : 2})`

No, the answer is incorrect.

Score: 0

Accepted Answers:

`d[2].append(4)`

`d["one"] = 1`

`d.update({'one': 2})`

9) Which of the following data type is immutable?

1 point

☐ list

☐ set

☐ tuple

☐ dictionary

No, the answer is incorrect.

Score: 0

Accepted Answers:

`tuple`

10) `student = {'name': 'Jane', 'age': 25, 'courses': ['Math', 'Statistics']}` **2 points**

Which among the following will return

`{'name': 'Jane', 'age': 26, 'courses': ['Math', 'Statistics'], 'phone': '123-456'}`

☐ `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})`

11) What is the output of the following code?

1 point

```
name = "Mahesh"
l = []

for i in name:
    l.append(i.capitalize())

print(l)
```

☐ ['M', 'A', 'H', 'E', 'S', 'H']

☐ ['m', 'a', 'h', 'e', 's', 'h']

☐ ['M', 'a', 'h', 'e', 's', 'h']

☐ ['m', 'A', 'H', 'E', 'S', 'H']

No, the answer is incorrect.

Score: 0

Accepted Answers:

`['M', 'A', 'H', 'E', 'S', 'H']`

12) What will be the output of the following code snippet?

2 points

```
a = np.array([range(i, i+4) for i in [1, 3, 5]])  
print(a)
```

- ☐ `[[1 2 3 4 5]
[3 4 5 6 7]
[5 6 7 8 9]]`
- ☐ `[[1 2 3 4]
[3 4 5 6]
[5 6 7 8]]`
- ☐ `[[2 3 4]
[4 5 6]
[6 7 8]]`
- ☐ None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

`[[1 2 3 4]`

`[3 4 5 6]`

`[5 6 7 8]]`