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[NPTEL \(https://swayam.gov.in/explorer?ncCode=NPTEL\)](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?)

Week 2: Assignment 2

The due date for submitting this assignment has passed.

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

Assignment submitted on 2025-02-04, 10:42 IST

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

1 point

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

Yes, the answer is correct.

Score: 1

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.

Yes, the answer is correct.

Score: 2

Accepted Answers:

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



unit=30&lesson=31)

● Sequence_data_part_1 (unit=30&lesson=32)

● Sequence_data_part_2 (unit=30&lesson=33)

● Sequence_data_part_3 (unit=30&lesson=34)

● Sequence_data_part_4 (unit=30&lesson=35)

● Numpy (unit=30&lesson=36)

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

● Week 2 - FAQs (unit=30&lesson=38)

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

● Week 2
Feedback Form : Python for Data Science (unit=30&lesson=114)

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

"data" + "-" + "science"

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]]

Yes, the answer is correct.

Score: 2

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]

Yes, the answer is correct.

Score: 2

Accepted Answers:

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

5) What is the output of the following code?

2 points



Week 3 ()

Week 4 ()

Supporting
material for
Week 4 ()Download
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Books ()

Text
Transcripts ()Problem
Solving
Session - Jan
2025 ()

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

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

- ☐ [2, 3, 4, 5]
- ☐ [0, 1, 2, 3]
- ☒ [1, 2, 3, 4]
- ☐ Will throw an error: Set objects are not iterable.

Yes, the answer is correct.

Score: 2

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}

Yes, the answer is correct.

Score: 1

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))`

Yes, the answer is correct.

Score: 2

Accepted Answers:

`x = t2[t1[1]]`

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

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

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

Yes, the answer is correct.

Score: 2

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

Yes, the answer is correct.

Score: 1

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

Yes, the answer is correct.

Score: 2

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']

Yes, the answer is correct.

Score: 1

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

Yes, the answer is correct.

Score: 2

Accepted Answers:

[[1 2 3 4]

[3 4 5 6]

[5 6 7 8]]

