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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
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- ☐ Sequence_data_part_4
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- ☐ Numpy (unit?
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- ☒ Week 2 : Lecture slides
(unit?unit=30&lesson=37)
- ☐ Week 2 - FAQs (unit?
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- ☐ Practice: Week 2:
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Python For Data Science
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Week 3 ()

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Week 4 ()

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Problem Solving
Session - July 2023 ()

Week 2: Assignment 2

The due date for submitting this assignment has passed.

Due on 2023-08-09, 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) Given a NumPy array, `arr = np.array([[1, 2, 3], [4, 5, 6], [7, 8, 9]])`, what is the output of the command, `print(arr[0][1])`?

1 point

- ☐ [[1 2 3]
[4 5 6]
[7 8 9]]
☐ [1 2 3]
☐ [4 5 6]
☐ [7 8 9]

No, the answer is incorrect.

Score: 0

Accepted Answers:

[4 5 6]

3) What is the output of the following code?

1 point

```
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.

No, the answer is incorrect.

Score: 0

Accepted Answers:

[1, 2, 3, 4]

4) What is the output of the following code?

1 point

```
import numpy as np

arr = np.array(np.arange(0, 15))

print(arr.reshape(3,5))
```

- ☐

```
[[ 0  1  2  3]
 [ 4  5  6  7]
 [ 8  9 10 11]
 [12 13 14 15]]
```

- ☐ `[[1 2 3 4 5]
[6 7 8 9 10]
[11 12 13 14 15]]`
- ☐ `[[0 1 2 3 4]
[5 6 7 8 9]
[10 11 12 13 14]]`
- ☐ `[[1 2 3 4]
[5 6 7 8]
[9 10 11 12]
[13 14 15 16]]`

No, the answer is incorrect.
Score: 0

Accepted Answers:

```
[[ 0 1 2 3 4]
[ 5 6 7 8 9]
[10 11 12 13 14]]
```

- 5) Which of the following code gives output **My friend's house is in Chennai**?

1 point

- ☐ `place = 'Chennai'`
`print("My friend's house is in {}".format(place))`
- ☐ `place = 'Chennai'`
`print('My friend's house is in {}'.format(place))`
- ☐ `print('My friend's house is in {}'.format(place))`
- ☐ `print("My friend's house is in {}".format("Chennai"))`

No, the answer is incorrect.
Score: 0

Accepted Answers:

```
place = 'Chennai'

print("My friend's house is in {}".format(place))

print("My friend's house is in {}".format("Chennai"))
```

- 6) Let $r1 = (1, 2, \text{"tuple"}, 4)$ and $r2 = (5, 6, 7)$. Which of the following will not give any error after the execution?

1 point

- ☐ `r1.append(5)`
- ☐ `x = r2[r1[1]]`
- ☐ `r3 = r1 + r2`
- ☐ `r3 = (r1, r2)`
- ☐ `r3 = (list(r1), list(r2))`

No, the answer is incorrect.
Score: 0

Accepted Answers:

```
x = r2[r1[1]]
r3 = r1 + r2
r3 = (r1, r2)
r3 = (list(r1), list(r2))
```

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

1 point

- ☐ `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})
```

- 8) Which of the following data type is immutable?

1 point

- ☐ list

- ☐ set
- ☐ tuple
- ☐ dictionary

No, the answer is incorrect.

Score: 0

Accepted Answers:

tuple

9) student = {'name': 'Jane', 'age': 25, 'courses': ['Math', 'Statistics']}

1 point

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})

10) 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']