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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 ()

- Introduction to Python for Data Science (unit? unit=18&lesson=19)
- Introduction to Python (unit? unit=18&lesson=20)

Week 1 : Assignment 1

The due date for submitting this assignment has passed.

Due on 2025-08-06, 23:59 IST.

As per our records you have not submitted this assignment.

1) Which of the following variable names are INVALID in Python?

1 point

- ☐ 1_variable
- ☐ variable_1
- ☐ variable1
- ☐ variable#

No, the answer is incorrect.
Score: 0

Accepted Answers:
1_variable
variable#

2) Which of the following operators have lower precedence than "not" in Python?

1 point

- ☐ +
- ☐ and
- ☐ ==
- ☐ |

No, the answer is incorrect.
Score: 0

Accepted Answers:
and

☐ Introduction to Spyder - Part 1 (unit? unit=18&lesson=21)

☐ Introduction to Spyder - Part 2 (unit? unit=18&lesson=22)

☐ Variables and Datatypes (unit? unit=18&lesson=23)

☐ Operators (unit? unit=18&lesson=24)

☐ Setup Guide (unit? unit=18&lesson=25)

☒ Week 1: Lecture slides (unit? unit=18&lesson=26)

☒ Week 1-FAQs (unit? unit=18&lesson=27)

☐ Week 1 Feedback Form : Python for Data Science!! (unit? unit=18&lesson=113)

☐ Quiz: Week 1 : Assignment 1 (assessment? name=165)

☒ Practice: Week 1: Practice Assignment 1

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

1 point

```
a = 10
b = 5
print(a ** b % 3)
```

☐ 0

☐ 100

☐ 1

☐ 2

No, the answer is incorrect.

Score: 0

Accepted Answers:

1

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

1 point

```
greetings = "Namaste"
greetings_1 = float(greetings)
print(type(greetings_1))
```

☐ int

☐ float

☐ str

☐ Code will throw an error.

No, the answer is incorrect.

Score: 0

Accepted Answers:

Code will throw an error.

5) Given two variables, **j = 6** and **g = 3.3**. If both normal division and floor division operators were used to divide **j** by **g**, what would be the data type of the value obtained from the operations?

1 point

☐ int, int

☐ float, float

☐ float, int

☐ int, float

No, the answer is incorrect.

Score: 0

Accepted Answers:

float, float

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

1 point

```
a = "10"
b = float(a) + 5
result = str(b) + "123"
print(type(result))
```

(assessment?
name=166)

Week 2 ()

Week 3 ()

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- ☐ <class'float'>
- ☐ <class'str'>
- ☐ <class'int'>
- ☐ The code will give an error.

No, the answer is incorrect.

Score: 0

Accepted Answers:

<class'str'>

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

1 point

```
a = 15
b = 3
c = 4
result = a + b * c // (c % b) - 5
print(result)
```

- ☐ 20
- ☐ 1
- ☐ 22
- ☐ 0

No, the answer is incorrect.

Score: 0

Accepted Answers:

22

8) What is the output of the following code snippet?

1 point

```
a = 4
b = 5
a *= b * 2
print(a)
```

- ☐ 10
- ☐ 20
- ☐ 25
- ☐ 40

No, the answer is incorrect.

Score: 0

Accepted Answers:

40

9) What is the output of the following code snippet?

1 point

```
a = 3
b = 5
c = (a == 3) and (b == 5) or (a != 3)
```

```
print(c)
```

- ☐ True
- ☐ False
- ☐ Error

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

10) Let a = 5 (101 in binary) and b = 3 (011 in binary). What is the result of the following operation? **1 point**

```
a = 5
```

```
b = 3
```

```
print(a & b)
```

- ☐ 3
- ☐ 7
- ☐ 5
- ☐ 1

No, the answer is incorrect.

Score: 0

Accepted Answers:

1

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Course outline

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Week 2 ()

☐ Jupyter setup
(unit?
unit=30&lesson
=31)

☐ Sequence_data
_part_1 (unit?

Week 2 : Assignment 2

The due date for submitting this assignment has passed.

Due on 2025-08-06, 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"`

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? unit=30&lesson=36)

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

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

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

☐ Quiz: Week 2 :
Assignment 2 (assessment? name=168)

☐ Practice: Week 2: Practice Assignment 2 (assessment? name=167)

Week 3 ()

Week 4 ()

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

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```
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]

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 : "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})`

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]]

Answer Submitted.

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Course outline

About NPTEL ()

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

- ☒ Introduction to Python for Data Science (unit? unit=18&lesson=19)

- ☐ Introduction to Python (unit?)

Week 1: Practice Assignment 1

Your last recorded submission was on 2025-10-08, 09:00 IST

Note : This assignment is only for practice purpose and it will not be counted towards the Final score

1) Which of the following is a valid variable name?

1 point

- ☐ .ram2
- ☐ ram.2
- ☒ ram_2
- ☐ 2ram00

Yes, the answer is correct.

Score: 1

Accepted Answers:

ram_2

2) Which of the following statement is invalid?

1 point

- ☐ m_n_q = 3500
- ☒ m.n.q = 3500, 3600, 3700
- ☐ m,n,q = 3500, 3600, 3700
- ☐ mnq = 350036003700

Yes, the answer is correct.

Score: 1

Accepted Answers:

m.n.q = 3500, 3600, 3700



unit=18&lesson=20)

☐ Introduction to Spyder - Part 1 (unit? unit=18&lesson=21)

☐ Introduction to Spyder - Part 2 (unit? unit=18&lesson=22)

☐ Variables and Datatypes (unit? unit=18&lesson=23)

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☐ Setup Guide (unit? unit=18&lesson=25)

☒ Week 1: Lecture slides (unit? unit=18&lesson=26)

☒ Week 1-FAQs (unit? unit=18&lesson=27)

☐ Week 1 Feedback Form : Python for Data Science!! (unit? unit=18&lesson=113)

☐ Quiz: Week 1 : Assignment 1 (assessment? name=165)

3) Assignment operator used in Python is: -

1 point

- ☐ ==
☐ >>
☐ <-
☒ =

Yes, the answer is correct.

Score: 1

Accepted Answers:

=

4) Which command would you use to find the data type of a variable

1 point

- ☐ data()
☒ type()
☐ typeof()
☐ str()

Yes, the answer is correct.

Score: 1

Accepted Answers:

type()

5) What will be the output after the following statements are executed?

1 point

```
X=300
Y= 17
X%=Y
print(X)
```

- ☒ 11
☐ 17.6
☐ 300
☐ 17

Yes, the answer is correct.

Score: 1

Accepted Answers:

11

Check Answers and Submit

Your score is: 5/5



● **Practice:**
Week 1:
Practice
Assignment 1
(assessment?
name=166)

Week 2 ()

Week 3 ()

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☐ Jupyter setup
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☐ Sequence_data
_part_1 (unit?)

Week 2: Practice Assignment 2

Assignment not submitted

Note : This assignment is only for practice purpose and it will not be counted towards the Final score

1) Variable 'a' is defined as

a = 'gOOd moRning'

Command to convert 'a' from 'gOOd moRning' to 'Good Morning' is:-

☐ a.upper()

☐ a.lower()

☐ a.string()

☒ a.title()

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.title()

1 point

2) Create a list called "Stationery" with the below data

Product = ['Pencil', 'Pen', 'Eraser', 'Pencil Box', 'Scale']

Price= [5, 10, 2, 20, 12]

Brand = ['Camlin', 'Rotomac', 'Nataraj', 'Camel', 'Apsara']

Stationery = [Product, Price, Brand]

The command to add "Notebook" as the first element inside the first level of the list "Stationery" is:-

1 point



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? unit=30&lesson=36)

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

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

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

☐ Quiz: Week 2 :
Assignment 2 (assessment? name=168)

☐ Practice:
Week 2:
Practice
Assignment 2 (assessment? name=167)

Week 3 ()

- ☐ Stationery[0].append('Notebook')
- ☒ Stationery[0].insert(0,'Notebook')
- ☐ Stationery[0][1] = "Notebook"
- ☐ Stationery[0].extend('Notebook')

Yes, the answer is correct.

Score: 1

Accepted Answers:

Stationery[0].insert(0,'Notebook')

3) The method to clear all the elements from a Set is:-

1 point

- ☐ remove()
- ☐ discard()
- ☒ clear()
- ☐ delete()

Yes, the answer is correct.

Score: 1

Accepted Answers:

clear()

4) Consider the list,

1 point

Mylist=['a', 'a', 'b', 'b', 'b', 'c', 'c', 'd', 'e']

The output of the code: Mylist.index('d') is

- ☒ 7
- ☐ 8
- ☐ 4
- ☐ 6

Yes, the answer is correct.

Score: 1

Accepted Answers:

7

5) Which of the following python sequence data type is immutable?

1 point

- ☐ list
- ☐ dictionary
- ☒ tuple
- ☐ array

Yes, the answer is correct.

Score: 1

Accepted Answers:

tuple



Week 4 ()**Supporting
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Your score is: 5/5

