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

Week 1 : Assignment 1

The due date for submitting this assignment has passed.

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

Assignment submitted on 2025-01-25, 21:30 IST

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

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

Yes, the answer is correct.
Score: 1

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

3) What will be the output of the following code? **1 point**

a = 10

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

  ○ 0

  ○ 100

  ◉ 1

  ○ 2

Yes, the answer is correct.
Score: 1

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.

Yes, the answer is correct.
Score: 1

Accepted Answers:
Code will throw an error.

5) Given two variables, **j = 6** and **g = 3.3**. If both normal division and floor division **1 point** operators were used to divide **j** by **g**, what would be the data type of the value obtained from the operations?

  ○ 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))
```

  ○ <class 'float'>

  ○ <class 'str'>

  ○ <class 'int'>

  ◉ The code will give an error.

No, the answer is incorrect.
Score: 0
Accepted Answers:
$<class\text{ }'str'>$

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

Yes, the answer is correct.
Score: 1
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

Yes, the answer is correct.
Score: 1
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

Yes, the answer is correct.

Score: 1
Accepted Answers:
True

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

```
a = 5
b = 3
print ( a & b )
```

- ○ 3
- ○ 7
- ○ 5
- ◉ 1

Yes, the answer is correct.
Score: 1
Accepted Answers:
1