**Python for Data Science NPTEL Week 1 Assignment Answers**

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Python for Data Science NPTEL Week 1 Assignment Answers

**Python for Data Science NPTEL Week 1 Assignment Answers (Jan-Apr 2025)**

**Course Link:**[**Click Here**](https://examform.nptel.ac.in/2025_01/exam_form/dashboard)

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

* **(a)** I variable
* **(b)** variable I
* **(c)** variable1
* **(d)** variable#

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**2. Which of the following operators have lower precedence than “not” in Python?**

* **(a)** and
* **(b)** or

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**3. What will be the output of the following code?**

a = 10

b = 10

print(a b % 3)

* **(a)** 0
* **(b)** 100
* **(c)** 1
* **(d)** 2

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**4. What will be the output of the following code snippet?**

greetings = "Namaste"

greetings\_1 = float(greetings)

print(type(greetings\_1))

* **(a)** int
* **(b)** float
* **(c)** str
* **(d)** Code will throw an error.

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**5. Given 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?**

* **(a)** int, int
* **(b)** float, float
* **(c)** float, int
* **(d)** int, float

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**6. What will be the output of the following code snippet?**

result = 12 // 3

print(type(result))

* **(a)** class ‘float’
* **(b)** class ‘str’
* **(c)** The code will give an error.

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**7. What will be the output of the following code snippet?**

result = 5 + 15

print(result)

* **(a)** 20
* **(b)** 1
* **(c)** 22
* **(d)** 0

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**8. What is the output of the following code snippet?**

a = 5 \* 5

print(a)

* **(a)** 10
* **(b)** 20
* **(c)** 25
* **(d)** 40

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**9. What is the output of the following code snippet?**

c = (a == 3) and (b > 2)

print(c)

* **(a)** True
* **(b)** False
* **(c)** Error

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

print(a & b)

* **(a)** 3
* **(b)** 7
* **(c)** 5
* **(d)** 1

**[See also  Python for Data Science NPTEL | Week 2](https://progiez.com/nptel-python-for-data-science-assignment-2-answers" \t "_blank)**

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**Python for Data Science NPTEL Week 1 Assignment Answers (Jul-Dec 2024)**

**Course Link:**[**Click Here**](https://onlinecourses.nptel.ac.in/noc24_cs54/preview)

**Q1. What is the output of the following code?**  
36  
121212  
123  
Error: Invalid operation, unsupported operator ‘\*’ used between ‘int’ and ‘str’

**Answer: 121212**

**Q2. What is the output of the following code?**  
-1  
-2  
-1.28  
1.28

**Answer: -2**

**Q3. Consider a following code snippet. What is a data type of y?**  
int  
float  
str  
Code will throw an error.

**Answer: str**

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**Q4. Which of the following variable names are INVALID in Python?**  
1\_variable  
variable\_1  
variable1  
variable#

**Answer: [A, D] 1\_variable, variable#**

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**Q5. While naming the variable, use of any special character other than underscore(\_) ill throw which type of error?**  
Syntax error  
Key error  
Value error  
Index error

**Answer: Syntax error**

**Q6. Let x = “Mayur”. Which of the following commands converts the ‘x’ to float datatype?**  
str(float,x)  
x.float()  
float(x)  
Cannot convert a string to float data type

**Answer: Cannot convert a string to float data type**

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**Q7. Which Python library is commonly used for data wrangling and manipulation?**  
Numpy  
Pandas  
scikit  
Math

**Answer: Pandas**

**Q8. Predict the output of the following code.**  
12.0  
12  
11.667  
11

**Answer: 12**

**Q9. 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?**  
int, int  
float, float  
float, int  
int, float

**Answer: float, float**

**Q10. Let a = 5 (101 in binary) and b = 3 (011 in binary). What is the result of the following operation?**  
3  
7  
5  
1

**Answer: 1**

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**Python for Data Science NPTEL Week 1 Assignment Answers (Jan-Apr 2023)**

**Course Link:**[**Click Here**](https://onlinecourses.nptel.ac.in/noc23_cs21/course)

**[See also  Python for Data Science NPTEL Week 3 Assignment Answers](https://progiez.com/python-for-data-science-nptel-week-3-assignment-answers" \t "_blank)**

**Q1. Which of the following is/are the correct ways of naming variables in Python?**  
a. 2\_max = 5  
b. max\_2 = 5  
c. max2 = 5  
d. max @2 = 5

**Answer: b, c**

**Q2. What does 5%11 will evaluate to**  
a. 1  
b. 5  
c. 0  
d. Syntax error

**Answer: b. 5**

**Q3. What does 4//7 evaluate to**  
a. 0  
b. 1  
c. 0.0  
d. 4

**Answer: a. 0**

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**Q4. What will be the output of the following code snippet?**  
a. 300  
b. 100200  
c. ‘100’ + ‘200’  
d. ‘100 + 200’

**Answer: b. 100200**

**Q5. What will be the output of the following code snippet?**  
a. 300  
b. 100200  
c. ‘100’ + ‘200’  
d. ‘100 + 200’

**Answer: a. 300**

**Q6. What is the type of the following expression?  
1 + 4 / 2**  
a. int  
b. float  
c. bool  
d. str

**Answer: b. float**

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**Q7. What is the type of the following expression?**  
**[1] (1 > 0) and (-1 < 0) and (1 == 1)**  
a. str  
b. bool  
c. True  
d. False

**Answer: c. True**

**Q8. What is the output of the following code snippet?**  
a. 32  
b. 44  
c. 40  
d. 36

**Answer: c. 40**

**Q9. Which of the arithmetic operators given below cannot be used with ‘strings’ in Python?**  
a. \*  
b. –  
c. +  
d. All of the above

**Answer: b. –**

**Q10. Consider the list of instructions and resulting outputs given below. Pick the set that is incorrect.**  
a. 4  
b. 2  
c. 1, 3  
d. 1, 3, 4  
e. All are correct

**Answer: b. 2**

**Q11. Two variables Xand Y were assigned the following values initially: X = 3 and Y = 6. Which of the following statements will help swap the values between these two variables?**  
a. Y = X  
X = Y  
b. X = Y  
c. X = Y  
Y = X  
d. X, Y = Y, X

**Answer: d. X, Y = Y, X**

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**Python for Data Science NPTEL Week 1 Assignment Answers (Jul-Dec 2022)**

Q1. What is the output of the following code?

num1 = 12

num2 "58"

print(num1 + num2)

a.12  
b.58  
c.70

**d.Error: Invalid operation, unsupported operator ‘+’ used between ‘int’ and ‘str’**

**[See also  Python for Data Science NPTEL Week 4 Assignment Answers](https://progiez.com/python-for-data-science-nptel-week-4-assignment-answers" \t "_blank)**

**Answer:- d**

2. 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?  
a. int, int  
**b. float, float**c. float, int  
d. int, float

**Answer:- b**

3. Let a = 5 (101 in binary) and b = 3 (011 in binary). Which of the following operations results in the values 7 and 1?

**Answer:- b**

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4. State whether the given statement is True or False.

When using the floor division operator (//), if the result is negative, then the result is rounded off to the next largest integer.

a. True  
**b. False**

**Answer:- b**

5. Let x = “50”. Which of the following commands converts the ‘x[’](https://uniquejankari.in/) to float datatype?  
  
a. str(float,x)  
b. x.float()  
**c. float(x)**d. Cannot convert a string to float datatype

**Answer:- c**

6. Which of the following variable names are INVALID in Python?  
  
**a. 1\_variable**b. variable\_1  
**c. variable\_**[**\***](https://uniquejankari.in/)d. variable1

**Answer:- a, c**

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7. Which of the following variable assignments would throw an error?  
  
a. var1=True; var2=False;  
**b. var1=false; var2=true;**c. var1=’True’; var2=’False’;  
d. var1=’true’; var2=’false’;

**Answer:- b**

8. Predict the output of the following code

x=4

y-11

p 5.0

ans=x\*\*(y % p)

print(ans)

a. 4  
**b. 4.0**c. 5  
d. 4[.](https://uniquejankari.in/)1

**Answer:- b**

9. The value of the variable result after running the code snippet below is \_\_\_\_

num-20.5

z-3

result-2+:\*3+num/lz

print(result)

a. 89.0

**b. 17.0**

c. 737.0

d. 96.0

**Answer:- b**

10. Which Python library is commonly used for data wrangling and manipulation?  
  
a. Numpy  
**b. Pandas**c. scikit  
d[.](https://uniquejankari.in/) Math

**Answer:- b**

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