

Python Interview questions - data types

(Python version 3.9 or later version)

Python Interview Questions

🔗 Python - Data Types

1. What is the type of the following: 1

- A) float
- B) int
- C) str

Answer: int

Explanation: As there is no decimal, the number is of type int

2. What is the type of the following "7.1"

- A) float
- B) int
- C) str

Answer: str

Explanation: The type is string

3. What is the result of the following code segment: int(12.3)

- A) 12.3
- B) 12
- C) 13

Answer: 12

Explanation: In Python, if you cast a float to an integer, the conversion truncates towards zero.

4. What is the result of the following code segment: int(True)

- A) 1
- B) 0
- C) error

Answer: 1

Explanation: When you cast a boolean True to an integer you get a 1

5. What do you call a value that doesn't have decimal values?

- A) A number
- B) An integer
- C) A string

Answer: An integer

6. What do you call a value that does have decimal values?

- A) A float
- B) A number
- C) An integer

Answer: A float

7. What data type can only have either a value of True or False?

- A) A string
- B) A boolean
- C) An integer

Answer: A boolean

8. What code would turn the string "1" into an integer?

- A) str(1)
- B) int("1")
- C) float("1")

Answer: int("1")

9. What character begins a single line comment?

- A)'''
- B) //
- C) #

Answer: #

10. What do we call it when we convert from one data type to another?

- A) casting
- B) converting
- C) changing

Answer: casting

11. What is the datatype of **np.nan**?

- A) int
- B) float
- C) str
- D) None

Answer: float

12. Which of the following numbers is NOT a float?

- A) 1.5
- B) 2.333333
- C) 0.0

D) 0

Answer: 0

Explanation: 0 on its own is an int. 0.0 however, is a float.

13. What values can the Boolean data type hold?

- A) Integers, fractions, complex numbers
- B) Unicode characters
- C) True or False values
- D) Any other data type

Answer: True or False values

14. What does it mean that Python is a dynamically-typed language?

- A) Variables in python can implicitly change to other types when comparing. For examples you can compare
- B) Python variables can be assigned to different types and changes types at will.
- C) Python is a more efficient language than C++
- D) All of the above

Answer: Python variables can be assigned to different types and changes types at will.

Explanation: Dynamic-typing just refers to the ability for variables to flexibly learn their types during assignment.

Which of the following Python objects is immutable?

- ☒ A) set
 - ☐ B) dict
 - ☐ C) list
 - ☐ D) str
-

What would be the result of executing the following code?

```
print(True*2)
```

- ☒ A) TrueTrue
- ☐ B) True True
- ☐ C) 2

☒ D Syntax Error

After executing the following line of code, what would be the data type of poll_data

```
poll_data = 7,
```

☐ A int

☐ B list

☐ C tuple

☐ D dict

Which of the following Python's built-in functions returns the type of the object that was passed?

☐ A type()

☐ B datatype()

☐ C objtype()

☐ D object()

Which of the following statements, when executed, raises the **TypeError**?

☐ A

```
dict(range(9))
```

☐ B

```
set(range(9))
```

☐ C

`list(range(9))`

☒ D

`tuple(range(9))`

After executing the following line of code, what would be the data type of `obj_data`

```
obj_data = ( )
```

☐ A

set

☐ B

dict

☐ C

tuple

☒ D

list

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