Python Interview questions - data types

(Python version 3.9 or later version)
Python Interview Questions
Python - Data Types

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1. What is the type of the following: 1 → int
A) float
B) int
C) str

Answer: int

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

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2. What is the type of the following "7.1"
A) float
B) int
C) str

Answer: str

Explanation: The type is string

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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.

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4. What is the result of the following code segment: int(True) — 1
A) 1
B) 0
C) error

Answer: 1

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

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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")

int("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

float

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. WWhat 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 compar
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 assign

Which of the following Python objects is immutable?

A) set

B) dict

C) list

D) str

Mutable

What would be the result of executing the following code?

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

A) TrueTrue

B) True True

C) 2

T = 1

(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 pas

(A) type( )

(B) datatype( )

(C) objtype( )

(D) object( )

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

(A)

dict(range(9))   *keys, value*

(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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