Data Types:

In programming, data type is an important concept.

Variables can store data of different types, and different types can do different things.

Python has the following data types built-in by default, in these categories:

|  |  |
| --- | --- |
| Text Type: | str |
| Numeric Types: | int, float, complex |
| Sequence Types: | list, tuple, range |
| Mapping Type: | dict |
| Set Types: | set, frozenset |
| Boolean Type: | bool |
| Binary Types: | bytes, bytearray, memoryview |
| None Type: | NoneType |

Getting the Data Type

You can get the data type of any object by using the type() function:

x = 5  
print(type(x))

Setting Data Type:

1.py

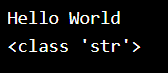
x = "Hello World"

#display x:

print(x)

#display the data type of x:

print(type(x))



2.py

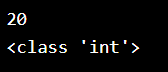
x = 20

#display x:

print(x)

#display the data type of x:

print(type(x))



3.py

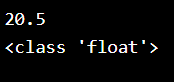
x = 20.5

#display x:

print(x)

#display the data type of x:

print(type(x))



4.py

x = 1j

#display x:

print(x)

#display the data type of x:

print(type(x))

5.py

x = ["apple", "banana", "cherry"]

#display x:

print(x)

#display the data type of x:

print(type(x))

6.py

x = ("apple", "banana", "cherry")

#display x:

print(x)

#display the data type of x:

print(type(x))

7.py

x = range(6)

#display x:

print(x)

#display the data type of x:

print(type(x))

8.py

x = {"name" : "John", "age" : 36}

#display x:

print(x)

#display the data type of x:

print(type(x))

9.py

x = {"apple", "banana", "cherry"}

#display x:

print(x)

#display the data type of x:

print(type(x))

10.py

x = frozenset({"apple", "banana", "cherry"})

#display x:

print(x)

#display the data type of x:

print(type(x))

11.py

x = True

#display x:

print(x)

#display the data type of x:

print(type(x))

12.py

x = bytearray(5)

#display x:

print(x)

#display the data type of x:

print(type(x))

13.py

x = memoryview(bytes(5))

#display x:

print(x)

#display the data type of x:

print(type(x))

14.py

x = None

#display x:

print(x)

#display the data type of x:

print(type(x))