

Ques. What are the common built-in data types in Python?

- 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:
 1. **Text Type:-** str
 2. **Numeric Types:-** int, float, complex
 3. **Sequence Types:** list, tuple, range
 4. **Mapping Type:** dict
 5. **Set Types:** set, frozenset
 6. **Boolean Type:** bool
 7. **Binary Types:** bytes, bytearray, memoryview
 8. **None Type:** NoneType
- **Numeric:-**
 - Integers :- int stores integers eg a=100, b=25, c=526, etc.
 - Float :- float stores floating-point numbers eg a=25.6, b=45.90, c=1.290, etc.
 - Complex Numbers:- complex stores numbers eg a=3 + 4j, b=2 + 3j, c=complex(4,6), etc.
 - long:- long stores higher range of integers eg a=908090999L, b=-0x1990999L, etc.
- **Sequence Type:-**
 - String
 - List
 - Tuple
 - range
- **Boolean:-** There can be only two types of value in the Boolean data type of Python, and that is True or False.
- **Set Type:-**
 - set:-
 - frozenset:-
- **Dictionary**
- **long:-** long stores higher range of integers eg a=908090999L, b=-0x1990999L, etc.
- **Mapping Types:-**
 - dict:- Stores comma-separated list of key: value pairs.
- **Binary Types:-**
 - bytes
 - bytearray
 - memoryview

Ques. How We can get the data type of any object?

- By using the **type()** function.

```
x = 5
print(type(x))

output:- <class 'int'>
```

Ques. Primitive Data Structures/Non-Primitive Data Structures

- Primitive Data Structures
 - Integers
 - Float
 - Strings
 - Boolean
- Non-Primitive Data Structures
 - Arrays
 - Lists
 - Tuples
 - Dictionary
 - Sets