Python Data Types

**Built-in data types** – Python has the following data types built-in by default.

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

**Casting — Assign the value with specific data type**, you can assign it by inserting the data type before the value and enter values within the parentheses.

a=int(5)  
print(type(a))*#<class 'int'>*b=str("name")  
print(type(b))*#<class 'str'>*c=float(5.55)  
print(type(c))*#<class 'float'>*d=complex(1j)  
print(type(d))*#<class 'complex'>*e=list(["apple", "banana", "cherry"])  
print(type(e))*#<class 'list'>*f=tuple (("apple", "banana", "cherry"))  
print(type(f))*#<class 'tuple'>*g=range(6)  
print(type(g))*#<class 'range'>*h=dict(name="John", age=36)  
print(type(h))*#<class 'dict'>*i=set(("apple", "banana", "cherry"))  
print(type(i))*#<class 'set'>*j=frozenset(("apple", "banana", "cherry"))  
print(type(j))*#<class 'frozenset'>*k=bool(5)  
print(type(k))*#<class 'bool'>*l=bytes(5)  
print(type(l))*#<class 'bytes'>*m=bytearray(5)  
print(type(m))*#<class 'bytearray'>*n=memoryview(bytes(5))  
print(type(n))*#<class 'memoryview'>*

**Retrieving the data typ**e using type() method

x=5  
print(type(x))*#<class 'int'>*y="Medhavi"  
print(type(y))*#<class 'str'>*z=20.5  
print(type(z))*#<class 'float'>*a=1j  
print(type(a))*#<class 'complex'>*b=["apple", "banana", "cherry"]  
print(type(b))*#<class 'list'>*c= ("apple", "banana", "cherry")  
print(type(c))*#<class 'tuple'>*d=range(6)  
print(type(d))*#<class 'range'>*e={"name" : "John", "age" : 36}  
print(type(e))*#<class 'dict'>*f={"apple", "banana", "cherry"}  
print(type(f))*#<class 'set'>*g=frozenset({"apple", "banana", "cherry"})  
print(type(g))*#<class 'frozenset'>*h=True  
print(type(h))*#<class 'bool'>*i=b"Hello"  
print(type(i))*#<class 'bytes'>*j=bytearray(5)  
print(type(j))*#<class 'bytearray'>*k= memoryview(bytes(5))  
print(type(k))*#<class 'memoryview'>*