

Day1_Python_Basics

May 19, 2025

1 Day 1 - Python Basics: Arithmetic Operations & Data Types

Welcome to Day 1 of my Python learning journey! Today, I'm starting with the most essential concepts in Python — arithmetic operations and data types.

These fundamentals are the building blocks for data analysis, generative AI, and agentic AI development.

2 Learned how to perform arithmetic operations in Python.

```
[2]: print(3 + 2)    # addition(+)
      print(3 - 2)    # subtraction(-)
      print(3 * 2)    # multiplication(*)
      print(3 / 2)    # division(/)
      print(3 ** 2)   # exponential(**)
      print(3 % 2)    # modulus(%)
      print(3 // 2)   # Floor division operator(//)
```

```
5
1
6
1.5
9
1
1
```

3 Explored basic built-in data type

```
[3]: print(type(10))           # Int
      print(type(3.14))        # Float
      print(type(1 + 3j))       # Complex
      print(type('AkshayBhujbal')) # String
      print(type([1, 2, 3]))    # List
      print(type({'name': 'Akshay'})) # Dictionary
      print(type({9.8, 3.14, 2.7})) # Set
      print(type((9.8, 3.14, 2.7))) # Tuple
      print(type(3 == 3))       # Bool
      print(type(3 >= 3))       # Bool
```

```
<class 'int'>
<class 'float'>
<class 'complex'>
<class 'str'>
<class 'list'>
<class 'dict'>
<class 'set'>
<class 'tuple'>
<class 'bool'>
<class 'bool'>
```

[]: