**1. Write a program to demonstrate the following:**

(a)Different numeric data types

(b)To perform different arithmetic operations

**Aim :** The aim of this program is find the different numeric data types in python and also to perform different arithmetic operations.

**Description:** Python supports several numeric data types, including integers, floating-point numbers, and complex numbers. **This** program demonstrates the different numeric data types and performs various arithmetic operations.

**Numeric Data types:**

**Integers**

Integers are whole numbers, positive or negative, without decimals, of unlimited length.

Example: 5, -10, 150

**Floating-Point Numbers**

Floating-point numbers are real numbers with a floating point representation. They are specified with a decimal point.

Example: 5.0, -10.5, 150.0

**Complex Numbers**

Complex numbers are numbers with a real and imaginary component represented as a + bj, where a is the real part and b is the imaginary part.

Example: 3 + 4j, -5 + 2j

**Arithmetic Operations**

1. Addition :

Example : 5 + 6

(2)Subtraction : Subtracts one number from another.

Example : 10 - 3

(3)Multiplication : Multiplies two numbers together.

Example : 3 \* 2

(4) Division : Divides one number by another.

Example : 10 / 5

(5)Modulus : Returns the remainder of a division operation.

Example : 5 % 6

**Program Implementation:**

#Program to print different numeric data typesin python and to perform arithmetic operations

a = 10

b = 15.5

c = 5 + 4j

print("\*\* Different Numeric data types are \*\*")

print(a,"is Type of",type(a))

print(b,"is Type of",type(b))

print(c,"is Type of",type(c))

print("\n\*\* Arithmetic Operations \*\*")

num1 = int(input("Enter num1 value : "))

num2 = int(input("Enter num2 value : "))

print("Addition : num1 + num2 = ",num1 + num2)

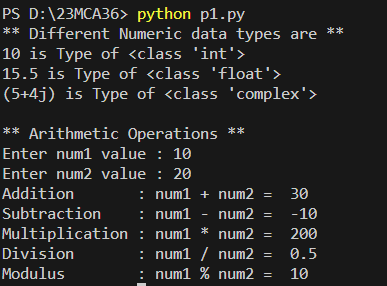
print("Subtraction : num1 - num2 = ",num1 - num2)

print("Multiplication : num1 \* num2 = ",num1 \* num2)

print("Division : num1 / num2 = ",num1 / num2)

print("Modulus : num1 % num2 = ",num1 % num2)

**Result:**

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