**Part 1: Addition and Subtraction**

**Pseudocode:**

START

PRINT "Enter the first number (num1):"

INPUT num1

PRINT "Enter the second number (num2):"

INPUT num2

addition\_result = num1 + num2

PRINT "The addition of num1 and num2 is:", addition\_result

subtraction\_result = num1 - num2

PRINT "The subtraction of num1 and num2 is:", subtraction\_result

END

**Python Code:**

# Part 1: Addition and Subtraction

def addition\_and\_subtraction():

num1 = float(input("Enter the first number (num1): "))

num2 = float(input("Enter the second number (num2): "))

addition\_result = num1 + num2

print("The addition of num1 and num2 is:", addition\_result)

subtraction\_result = num1 - num2

print("The subtraction of num1 and num2 is:", subtraction\_result)

addition\_and\_subtraction()

**Code execution screenshot**

A screenshot of a computer

Description automatically generated

**Part 2: Multiplication and Division**

**Pseudocode:**

START

PRINT "Enter the first number (num1):"

INPUT num1

PRINT "Enter the second number (num2):"

INPUT num2

multiplication\_result = num1 \* num2

PRINT "The multiplication of num1 and num2 is:", multiplication\_result

IF num2 != 0 THEN

division\_result = num1 / num2

PRINT "The division of num1 by num2 is:", division\_result

ELSE

PRINT "Cannot divide by zero!"

END IF

END

**Python Code:**

# Part 2: Multiplication and Division

def multiplication\_and\_division():

num1 = float(input("Enter the first number (num1): "))

num2 = float(input("Enter the second number (num2): "))

multiplication\_result = num1 \* num2

print("The multiplication of num1 and num2 is:", multiplication\_result)

if num2 != 0:

division\_result = num1 / num2

print("The division of num1 by num2 is:", division\_result)

else:

print("Cannot divide by zero!")

multiplication\_and\_division()

**Screenshot for the code:**

A screenshot of a computer

Description automatically generated

**Screenshot for code execution**

A screenshot of a computer

Description automatically generated

**Screenshot for code execution *when second number is zero***

A screenshot of a computer

Description automatically generated