Course:

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**Part 1: Addition and Subtraction of Two Numbers**

**Pseudocode:**

1. Start

2. Prompt the user to input `num1\_part1`

3. Prompt the user to input `num2\_part1`

4. Add `num1\_part1` and `num2\_part1` and store the result in `sum\_result`

5. Subtract `num2\_part1` from `num1\_part1` and store the result in `difference\_result`

6. Print the `sum\_result`

7. Print the `difference\_result`

8. End

**Source Code:**

# Part 1: Addition and Subtraction

print("Part 1: Addition and Subtraction")

# Get user input for Part 1

num1\_part1 = float(input("Enter the first number for addition and subtraction: "))

num2\_part1 = float(input("Enter the second number for addition and subtraction: "))

# Addition

sum\_result = num1\_part1 + num2\_part1

# Subtraction

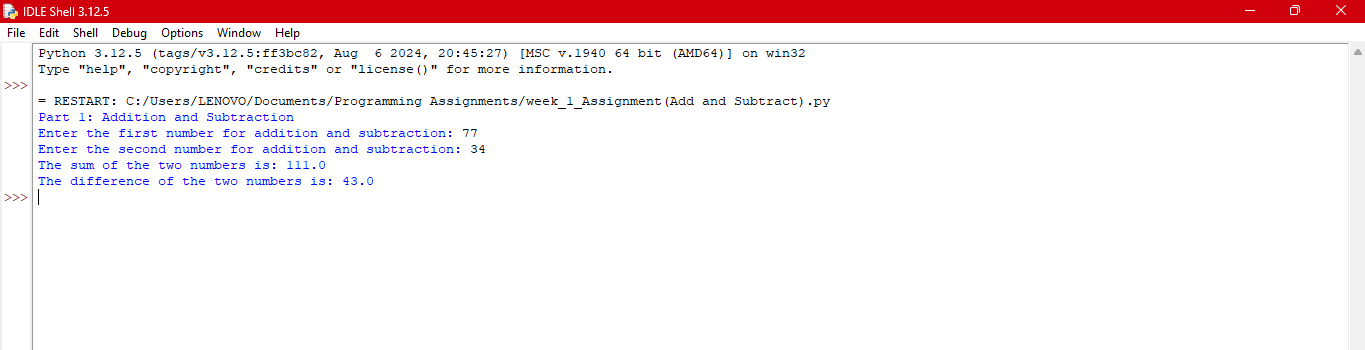
difference\_result = num1\_part1 - num2\_part1

# Display the results

print("The sum of the two numbers is:", sum\_result)

print("The difference of the two numbers is:", difference\_result)

**Screenshot of Program Execution:**

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**Part 2: Multiplication and Division of Two Numbers**

**Pseudocode:**

1. Start

2. Prompt the user to input `num1\_part2`

3. Prompt the user to input `num2\_part2`

4. Multiply `num1\_part2` and `num2\_part2` and store the result in `product\_result`

5. Divide `num1\_part2` by `num2\_part2` and store the result in `quotient\_result`

6. If `num2\_part2` is not 0, print the `quotient\_result`

7. If `num2\_part2` is 0, print "Division by zero is not allowed."

8. Print the `product\_result`

9. End

**Source Code:**

# Part 2: Multiplication and Division

print(“Part 2: Multiplication and Division")

# Get user input for Part 2

num1\_part2 = float(input("Enter the first number for multiplication and division: "))

num2\_part2 = float(input("Enter the second number for multiplication and division: "))

# Multiplication

product\_result = num1\_part2 \* num2\_part2

# Division

if num2\_part2 != 0:

division\_result = num1\_part2 / num2\_part2

print("The division of the two numbers is:", division\_result)

else:

print("Division by zero is not allowed.")

# Display the result

print("The product of the two numbers is:", product\_result)

**Screenshot of Program Execution:**

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**GIT Repository Link:**