Class Exercise:

Basic Numeric Operators

Imagine you are a teacher and you want to create a program to help your students practice basic arithmetic operations. The program should present the user with a menu of options to choose from: addition, subtraction, multiplication, or division. Once the user selects an option, the program should ask for two numbers and perform the chosen operation on them. The result should then be displayed to the user.

Here are the steps to follow:

* Display a menu of options to the user: addition, subtraction, multiplication, and division.
* Ask the user to enter their choice by selecting a number corresponding to the desired operation.
* Based on the user's choice, ask the user to enter two numbers.
* Use if-else statements to determine which operation to perform based on the user's choice.
* Perform the chosen operation on the two numbers.
* Display the result to the user.

print("Welcome to the Arithmetic Practice Program!")

print("Please select an operation:")

print("1. Addition")

print("2. Subtraction")

print("3. Multiplication")

print("4. Division")

# Your code here

if choice == 1:

    # Your code here

elif choice == 2:

# Your code here

elif choice == 3:

# Your code here

elif choice == 4:

# Your code here

else:

    print("Invalid choice. Please try again.")

    exit()

print(f"\nResult: {num1} {operation} {num2} = {result}")

Expected output:

Welcome to the Arithmetic Practice Program!

Please select an operation:

1. Addition

2. Subtraction

3. Multiplication

4. Division

Enter your choice: 3

Enter the first number: 5

Enter the second number: 4

Result: 5 \* 4 = 20