#### **ANKARA UNIVERSITY COM1001 LAB 11**

**Question2:** Write a Python program to create a desktop application based on the following requirements:

## 1. Objective:

Create a GUI application where users can select a mathematical operation, enter numbers, and get the result based on the selected operation.

# 2. Requirements:

# User Interface (GUI):

- The main window should have the title "Mathematical Operation App".
- The window size should be 400x250 pixels.

# Operation Selection:

- Use a dropdown menu to allow users to select a mathematical operation.
- Operations: "Addition", "Subtraction", "Multiplication", "Division"
- The default operation should be "Addition".

#### O Number Input:

 Include two text entry boxes for users to enter two numeric values (e.g., num1 and num2).

#### Calculate Button:

 Include a button labeled "Calculate" for users to submit the numbers and operation.

## 3. Functionality:

#### Empty Field Check:

If the user leaves any input field empty or enters non-numeric values, display a warning message:

"Please enter valid numbers!"

#### Perform Calculation:

Based on the selected operation, perform the appropriate mathematical calculation:

- Addition: Add the two numbers.
- **Subtraction:** Subtract the second number from the first.
- Multiplication: Multiply the two numbers.
- **Division:** Divide the first number by the second (if the second number is not zero).

## Error Handling for Division:

If the user tries to divide by zero, display a message:

"Cannot divide by zero!"



