Task 1 – Simple Calculator Program

Objective:

Develop a Python program that acts as a simple calculator. The program should allow the user to choose an arithmetic operation and apply it to two numbers entered by the user.

Description

The program is menu-driven and performs basic arithmetic operations using separate functions for each operation. The user selects an operation, enters two numbers, and the program displays the calculated result.

Requirements

1. **Define arithmetic functions**
   Create separate functions for:
   - Addition
   - Subtraction
   - Division
   - Multiplication
2. **Display a menu**
   - Show a menu that allows the user to choose one of the available operations.
3. **User input**
   - Ask the user to enter:
     - The desired operation
     - Two numeric values
4. **Perform the calculation**
   - Call the appropriate function based on the user's choice.
   - Handle invalid operation selections.
5. **Display the result**
   - Print the result of the selected operation clearly.
6. **Main program execution**
   - Use a main() function.
   - Ensure the program runs only when executed directly.

Notes

- The program should use functions to keep the code organized.
- User input must be converted to numerical values before calculations.
- The output should clearly show the result.

Task 2 – Thanos Project

Objective:

Create a Python function that performs a series of file and folder operations, inspired by the concept of "Thanos" randomly removing half of the files.

Requirements

Write a function that does the following steps:

1. **Open a folder**
    - Access an existing folder on your system.
2. **Create files inside the folder**
    - Generate a specified number of files inside the folder.
3. **Count the files**
    - Check and display the total number of files in the folder.
4. **Delete half of the files randomly**
    - Randomly select and delete half of the files inside the folder.
5. **Check the result**
    - Recount and display the remaining number of files after deletion.

Notes

- File deletion must be **random**.
- The function should print clear messages showing each step and its result.
- Use Python standard libraries such as **os** and random.

Expected Outcome

After running the function:

- Files are created successfully.
- Half of them are randomly removed.
- The final number of files is displayed correctly.