

Python_Activity5

Activity 1: Basic Arithmetic Operations

Problem Statement:

Write a Python program that asks the user to input **two numbers**. The program should then perform the following **arithmetic operations** and display the results:

1. Addition (`+`)
 2. Subtraction (`-`)
 3. Multiplication (`*`)
 4. Division (`/`)
 5. Floor Division (`//`)
 6. Modulus (`%`)
 7. Exponentiation (`**`)
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Activity 2: Checking Odd or Even

Problem Statement:

Write a Python program that **takes a number from the user** and determines whether it is **odd or even**. Use the modulus operator (`%`) to check the remainder when the number is divided by 2.

Activity 3: Operator Precedence (PEMDAS Rule)

Problem Statement:

Write a Python program that evaluates **mathematical expressions** using **arithmetic operators** and follows the **PEMDAS** rule. The program should calculate and print the results of the following expressions:

1. `5 + 3 * 2`
 2. `(5 + 3) * 2`
 3. `10 - 4 / 2 + 6`
 4. `2 ** 3 * 4`
 5. `(10 % 3) + (2 ** 3) - 1`
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Activity 4: Practical Application - Grocery Bill Calculator

Problem Statement:

Create a Python program that acts as a **grocery bill calculator**. The program should ask the user how many **apples, bananas, and mangoes** they want to buy. Each fruit has a fixed price:

- **Apple:** 10 PHP each
- **Banana:** 5 PHP each
- **Mango:** 15 PHP each

The program should **calculate the total cost** and display it to the user.