ASSIGNMENT 1:

Module 2: Basic Python Concepts

Task 1: Perform Basic Mathematical Operations

Problem Statement: Write a Python program that does the following:

1. **Takes two numbers as input from the user.**
2. **Performs the basic mathematical operations on these two numbers:**
    - **Addition**
    - **Subtraction**
    - **Multiplication**
    - **Division**
3. **Displays the results of each operation on the screen.**

Code:

```
2
3   num1 = int(input("Enter first number: "))
4   num2 = int(input("Enter second number: "))
5
6   print("Your first number is:", num1)
7   print("Your second number is:", num2)
8
9   # Addition
10  sum_result = num1 + num2
11  print("The sum of", num1, "and", num2, "is:", sum_result)
12
13  # Subtraction
14  diff_result = num1 - num2
15  print("The difference when", num2, "is subtracted from", num1, "is:", diff_result)
16
17  # Multiplication
18  prod_result = num1 * num2
19  print("The product of", num1, "and", num2, "is:", prod_result)
20
21  # Division
22  div_result = num1 / num2
23  print("The division of", num1, "by", num2, "gives:", div_result)
24
```

Output:


PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
Python
n/TuteDude Assignment 1.py"
Enter first number: 22
Enter second number: 47
Your first number is: 22
Your second number is: 47
The sum of 22 and 47 is: 69
The difference when 47 is subtracted from 22 is: -25
The product of 22 and 47 is: 1034
The division of 22 by 47 gives: 0.46808510638297873
PS C:\Users\VG\Desktop\TuteDude Python>

Task 2: Create a Personalized Greeting

Problem Statement: Write a Python program that:

1. **Takes a user's first name and last name as input.**
2. **Concatenates the first name and last name into a full name.**
3. **Prints a personalized greeting message using the full name.**

Code:

```
27  fname = input("Enter your first name: ")
28  lname = input("Enter your last name: ")
29
30  print("Hello", fname, lname + "!")
```

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS                                   Python

PS C:\Users\VG\Desktop\TuteDude Python> & C:/Users/VG/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/VG/Desktop/TuteDude Pytho
n/TuteDude Assignment 1.py"
Enter your first name: Ved
Enter your last name: Patel
Hello Ved Patel!
PS C:\Users\VG\Desktop\TuteDude Python>
```