

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:



The screenshot shows the VS Code interface with the 'TERMINAL' tab selected. The terminal displays the output of a Python script named 'n/TuteDude Assignment 1.py'. The script prompts for two numbers, 22 and 47, and then calculates and displays their sum, difference, product, and division. The command prompt at the bottom shows the current directory as 'C:\Users\VG\Desktop\TuteDude' and the active shell as 'Python'.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Python + - [ ] [ ] ... | [ ] [ ] X

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

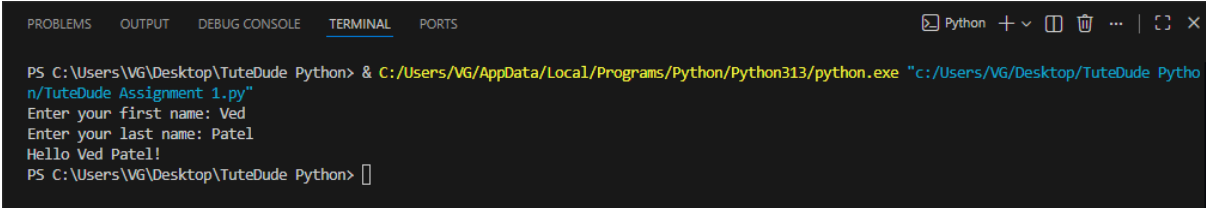
Problem Statement: Write a Python program that:

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:



The screenshot shows a Windows command prompt window titled "Python" with standard window controls. The terminal displays the following text:

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