

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:
 - o Addition
 - o Subtraction
 - o Multiplication
 - o Division
3. Displays the results of each operation on the screen.

The screenshot shows the PyCharm IDE interface. On the left, the project structure is visible with files Task 1.py and Task 2.py. Task 1.py is currently selected. The code in Task 1.py is:

```
a = float(input("Enter the first number: "))
b = float(input("Enter the second number: "))
X = a + b
Y = a - b
x = a * b
y = a / b
print("Addition", X)
print("Subtraction", Y)
print("Multiplication", x)
print("Division", y)
```

In the bottom right, the terminal window shows the execution of Task 1.py and its output:

```
/Users/kirandeepsohi/PyCharmMiscProject/.venv/bin/python /Users/kirandeepsohi/PyCharmMiscProject/Task 1.py
Enter the first number: 20
Enter the second number:2
Addition 22.0
Subtraction 18.0
Multiplication 40.0
Division 10.0

Process finished with exit code 0
```

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.

The screenshot shows the PyCharm IDE interface. On the left, the Project tool window displays a project named 'PyCharmMiscProject' containing files 'Task 1.py' and 'Task 2.py'. The 'Task 2.py' file is selected and shown in the main editor area. The code is as follows:

```
a= input("Your First name: ")
b= input("Your Second name: ")
c = a + ' ' + b
print("Hey, I am", c, "and I glad that I chose tutedue learning.")
```

Below the editor is the Run tool window, which shows the command used to run the script: '/Users/kirandeepsohi/PyCharmMiscProject/.venv/bin/python /Users/kirandeepsohi/PyCharmMiscProject/Task 2.py'. The run output pane shows the interaction with the program:

```
Your First name: Kirandeep
Your Second name: Sohi
Hey, I am Kirandeep Sohi and I glad that I chose tutedue learning.
Process finished with exit code 0
```