

## **Assignment Report - Week 1**

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➤ **Roll Number:** TN/IN01/PY/002

### **Task 1:**

**Setup Your Python Environment i.e IDE, Extensions, package manager etc**

#### **1. Objective:**

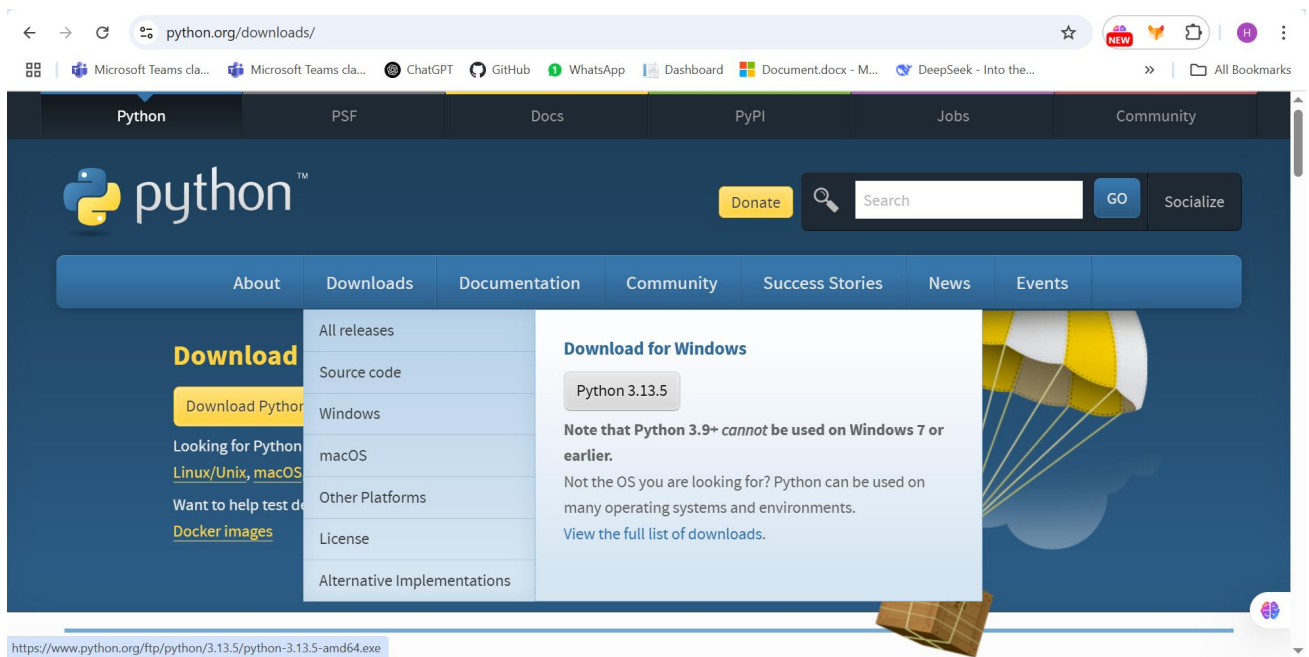
To configure the Python development environment by installing:

- **Python**
- **Selecting an IDE**
- **Enabling extensions**

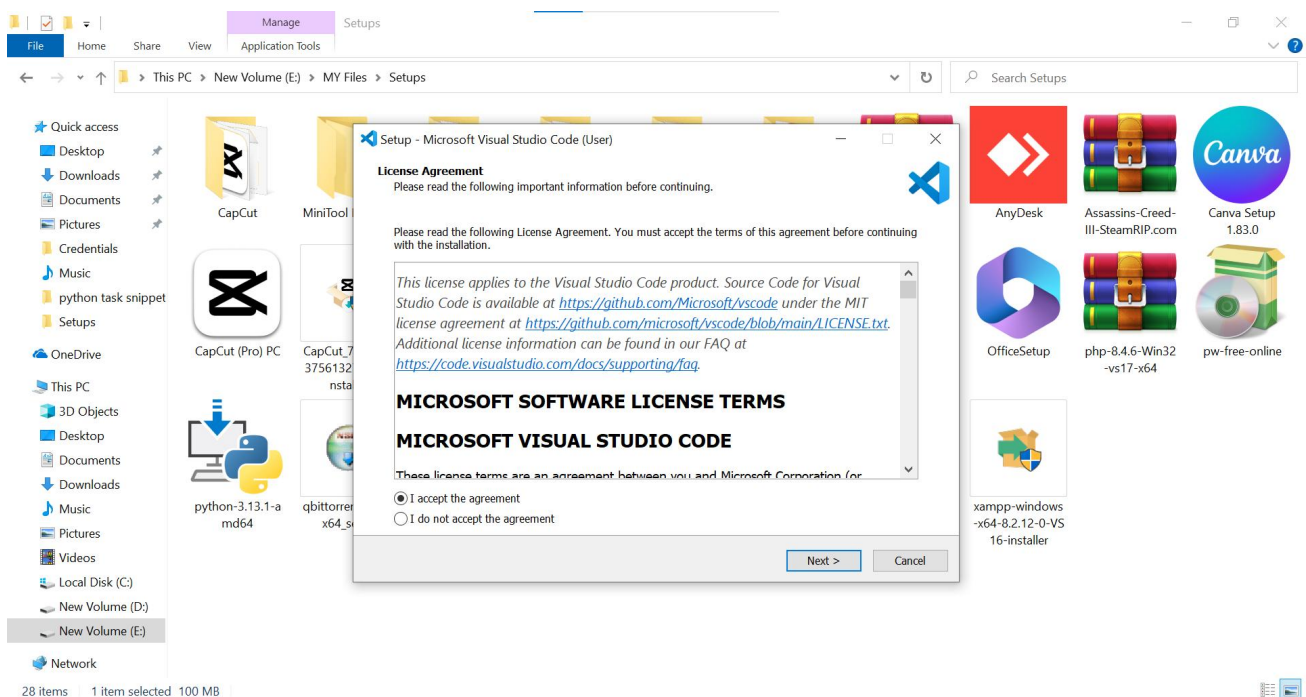
and ensuring the functionality of the pip package manager.

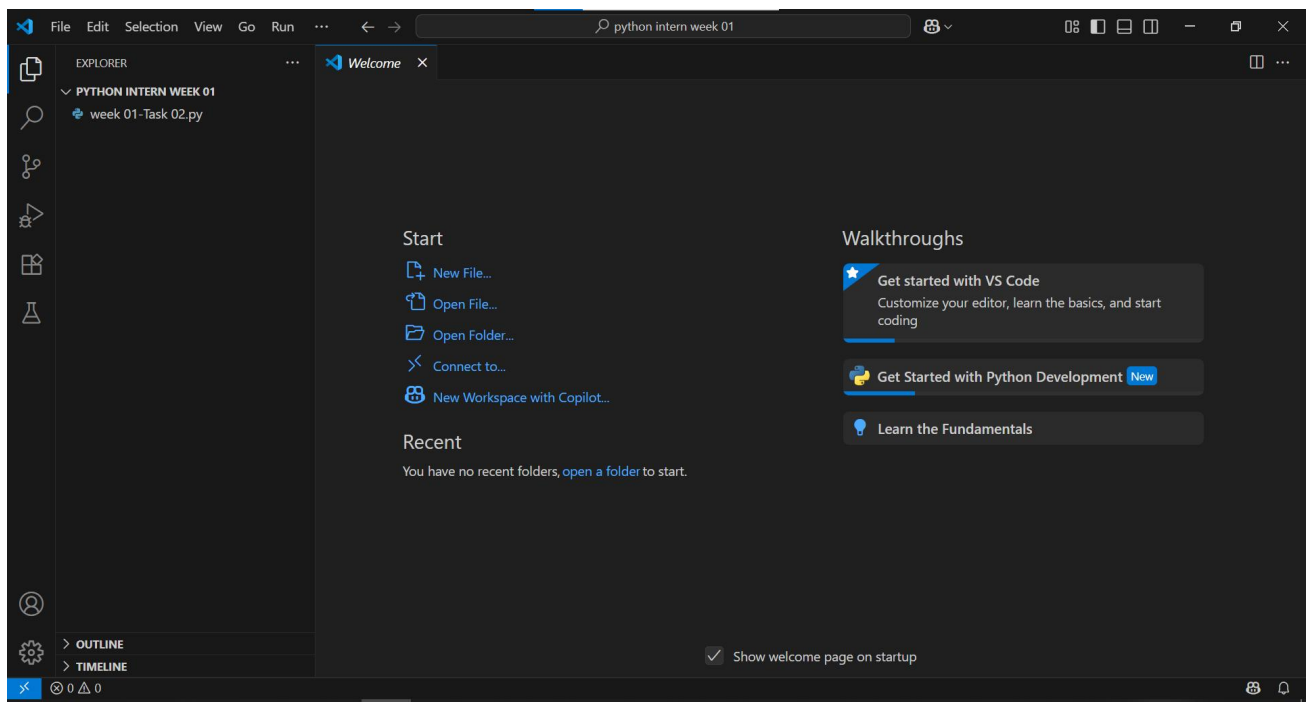
#### **2. Steps I Followed:**

Downloaded and installed **Python 3.13** from the official Python website.

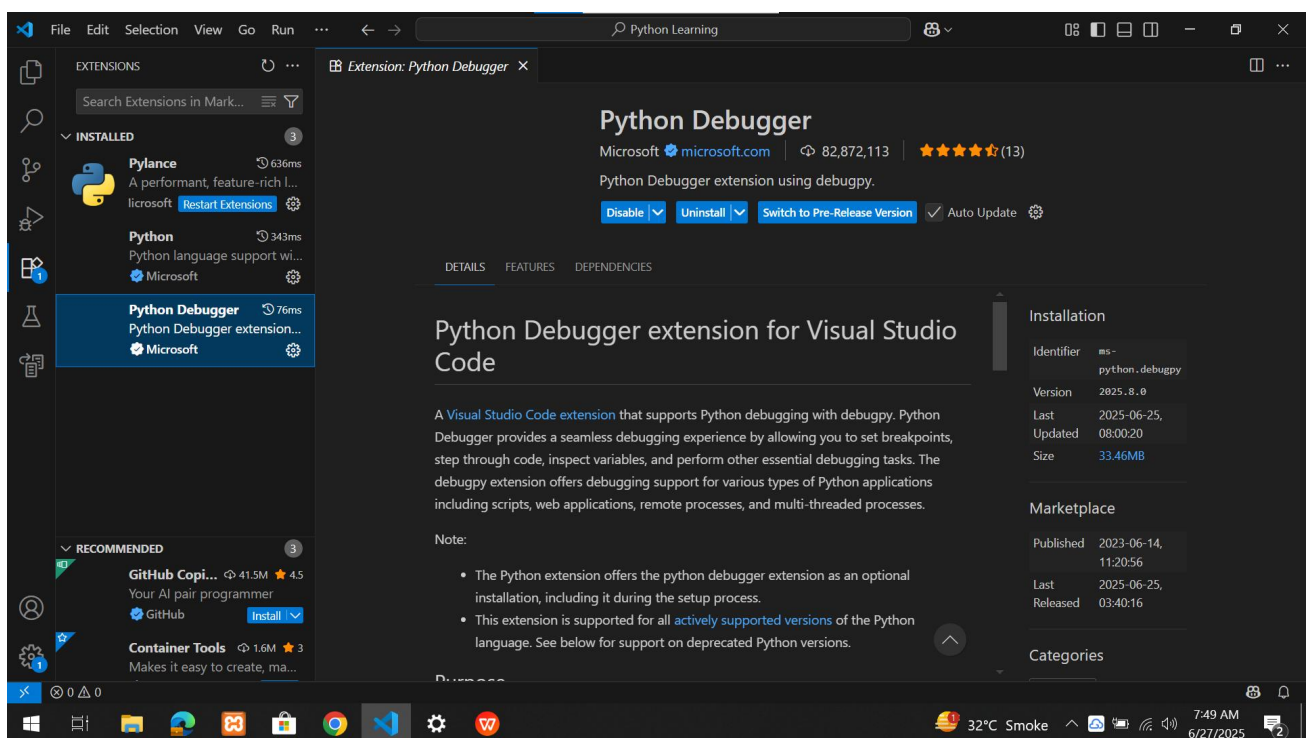


Installed Visual Studio Code (VS Code) to use as the coding environment.

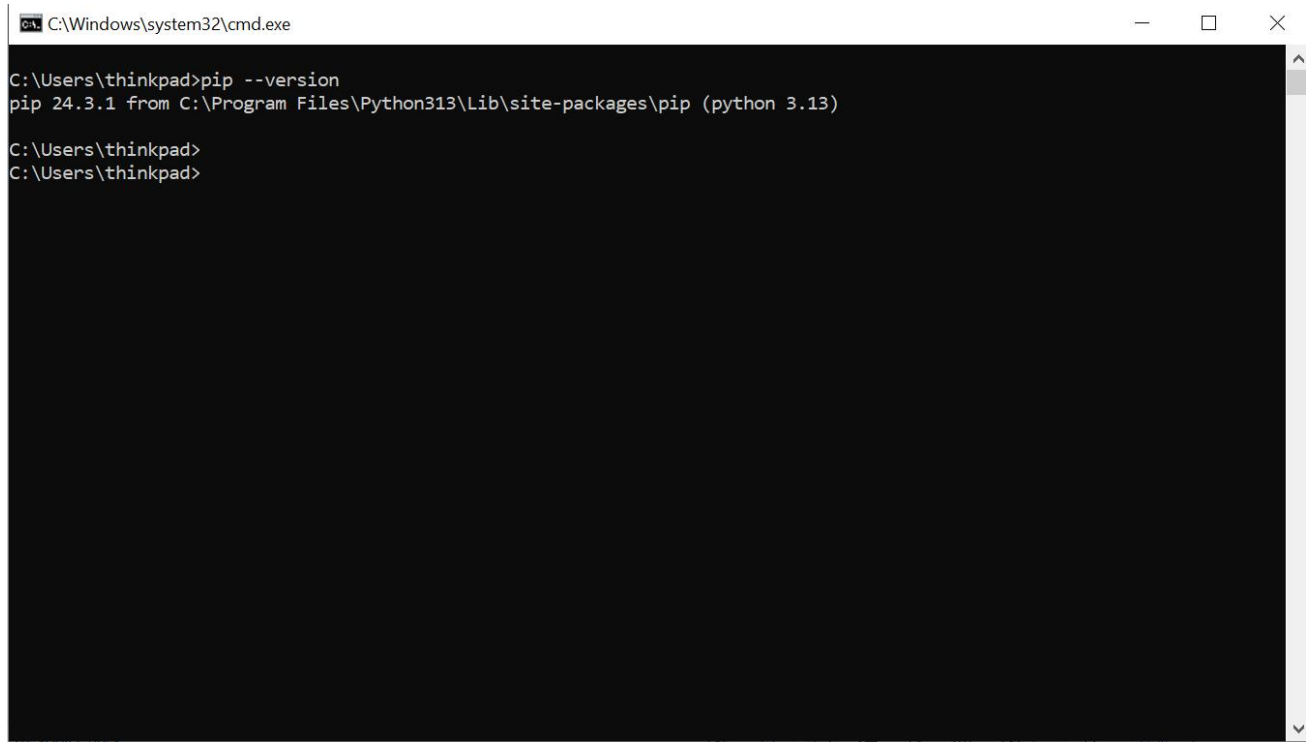




Added necessary extensions to VS Code, such as Python.



Verified pip installation by executing `pip --version` in the terminal.

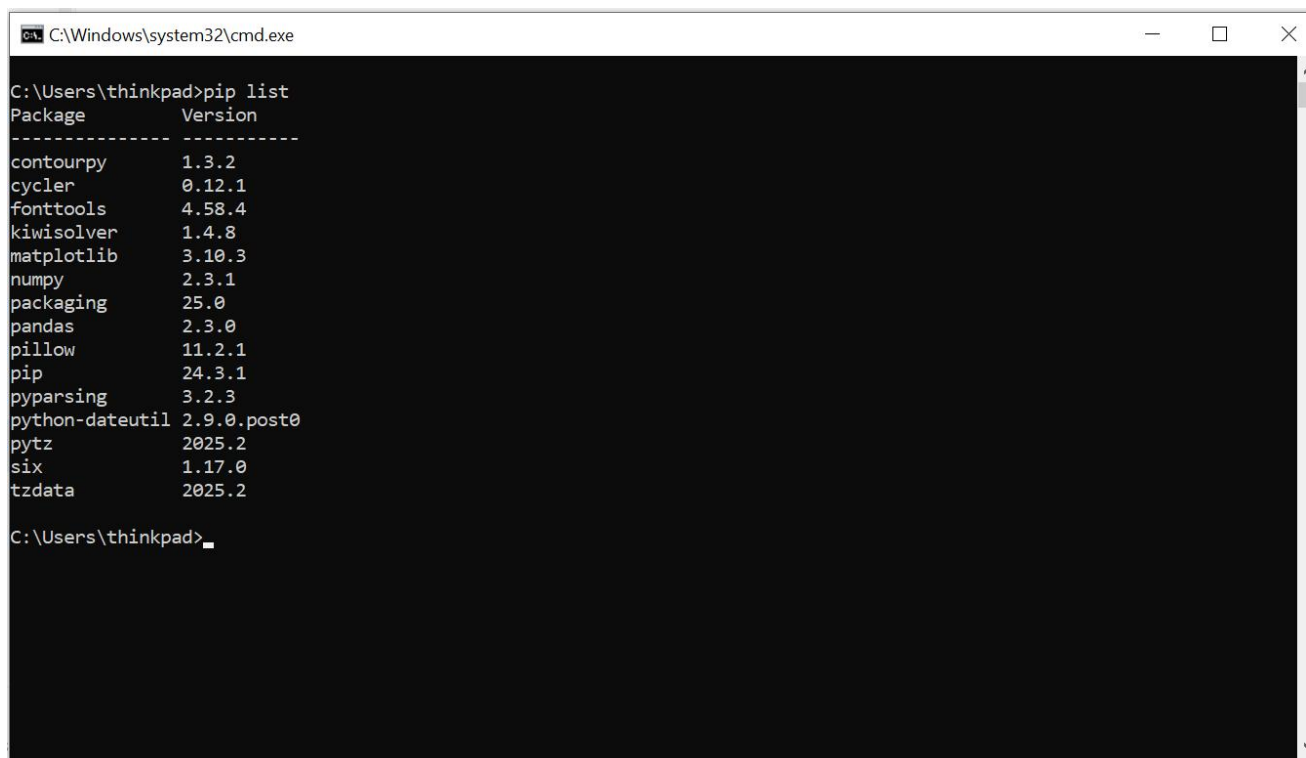


```
C:\Windows\system32\cmd.exe

C:\Users\thinkpad>pip --version
pip 24.3.1 from C:\Program Files\Python313\Lib\site-packages\pip (python 3.13)

C:\Users\thinkpad>
C:\Users\thinkpad>
```

Attempted to install essential libraries: numpy, pandas, and matplotlib using pip.



```
C:\Windows\system32\cmd.exe

C:\Users\thinkpad>pip list
Package            Version
-----
contourpy          1.3.2
cyclor             0.12.1
fonttools          4.58.4
kiwisolver         1.4.8
matplotlib         3.10.3
numpy              2.3.1
packaging          25.0
pandas             2.3.0
pillow             11.2.1
pip               24.3.1
pyparsing          3.2.3
python-dateutil    2.9.0.post0
pytz               2025.2
six               1.17.0
tzdata            2025.2

C:\Users\thinkpad>
```

### 3. Learnings and Challenges I have Faced:

1. Gained a solid understanding of the components needed for a Python environment.
2. Learned to troubleshoot pip timeout errors.

## **Task 2:**

### **1. Objective:**

**Create a Python script that prints personal details including name, hobby, age, and motivation for learning Python.**

### **2. Steps I Followed:**

- Write a Python program utilizing variables and formatted print statements.
- Executed the script in the VS Code terminal to verify results.

### **3. Code Sample:**

```
#Task 2:
```

```
print ("""
```

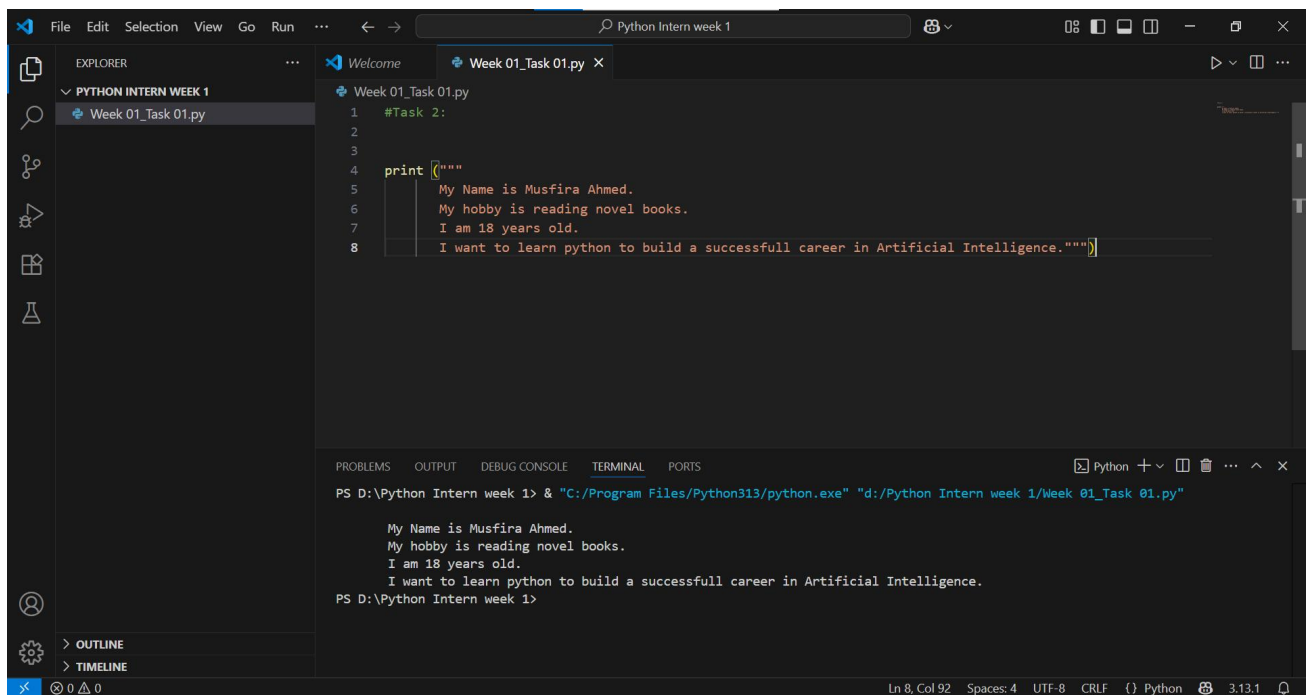
```
    My Name is Musfira Ahmed.
```

```
    My hobby is reading novel books.
```

```
    I am 18 years old.
```

```
    I want to learn python to build a successfull career in Artificial Intelligence.""")
```

### **4. Code Snippet:**



The screenshot shows the Visual Studio Code interface. The Explorer pane on the left shows a project named 'PYTHON INTERN WEEK 1' with a file 'Week 01\_Task 01.py'. The main editor window displays the contents of this file, which is a Python script for a task. The script defines a task and prints a multi-line string. The output pane at the bottom shows the command used to run the script and the resulting output, which matches the string in the script.

```
#Task 2:

print("""
My Name is Musfira Ahmed.
My hobby is reading novel books.
I am 18 years old.
I want to learn python to build a successfull career in Artificial Intelligence.""")
```

PS D:\Python Intern week 1> "C:/Program Files/Python313/python.exe" "d:/Python Intern week 1/Week 01\_Task 01.py"

My Name is Musfira Ahmed.  
My hobby is reading novel books.  
I am 18 years old.  
I want to learn python to build a successfull career in Artificial Intelligence.

PS D:\Python Intern week 1>

## 5. Learning and Challenges I have faced:

1. Improved my understanding of basic syntax such as variable declarations and print formatting.
2. Encountered no issues, as I am already comfortable with Python fundamentals.

### Task 3:

#### 1. Objective:

**Write a Python script that prints:**

**Ask the user to input two numbers, Print the result of their addition.**

#### 2. Steps I Followed:

- Used the input() function to take two numeric values.
- Then write a condition for sum
- Printed the resulting sum using print().

### 3. Code Sample:

#Task No.03

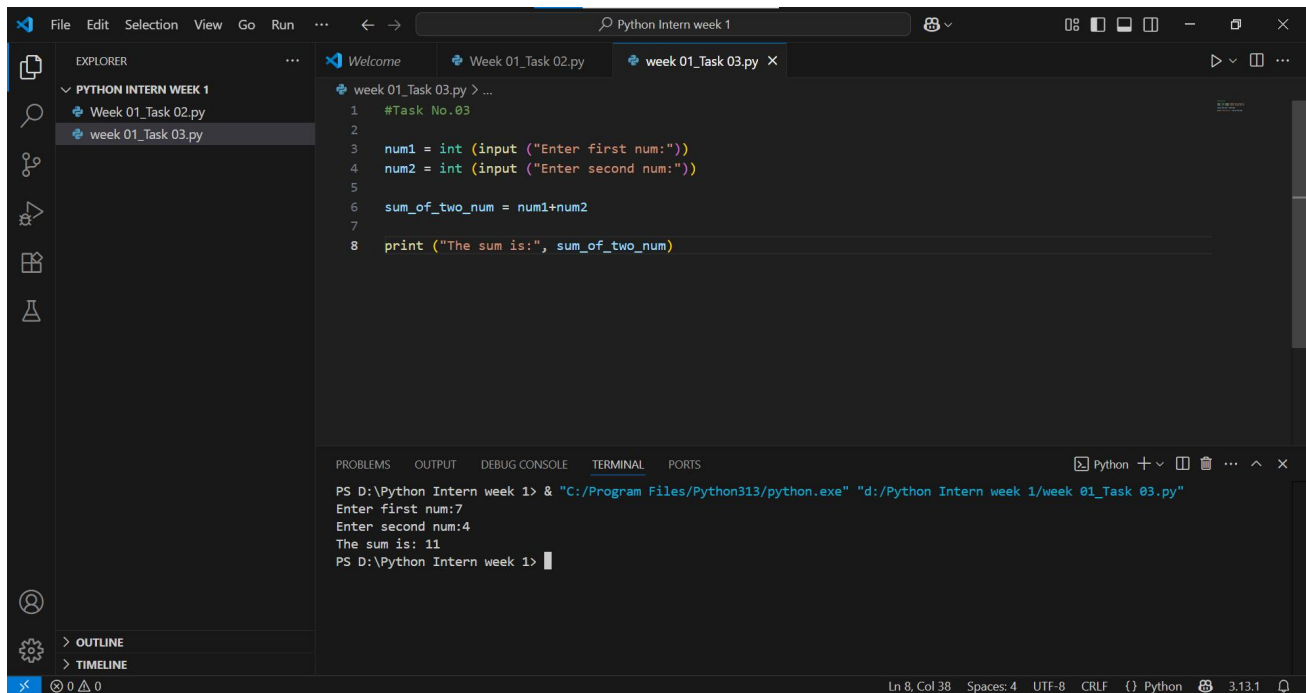
```
num1 = int (input ("Enter first num:"))
```

```
num2 = int (input ("Enter second num:"))
```

```
sum_of_two_num = num1+num2
```

```
print ("The sum is:", sum_of_two_num)
```

### 4. Code Snippet:



The screenshot displays the Visual Studio Code (VS Code) interface. The Explorer panel on the left shows a project named 'PYTHON INTERN WEEK 1' with two files: 'Week 01\_Task 02.py' and 'week 01\_Task 03.py'. The main editor window is open to 'week 01\_Task 03.py', showing the following Python code:

```
1 #Task No.03
2
3 num1 = int (input ("Enter first num:"))
4 num2 = int (input ("Enter second num:"))
5
6 sum_of_two_num = num1+num2
7
8 print ("The sum is:", sum_of_two_num)
```

The bottom panel of the VS Code window shows the 'TERMINAL' output, which contains the command to run the script and its execution results:

```
PS D:\Python Intern week 1> & "C:/Program Files/Python313/python.exe" "d:/Python Intern week 1/week 01_Task 03.py"
Enter first num:7
Enter second num:4
The sum is: 11
PS D:\Python Intern week 1>
```

The status bar at the bottom indicates the current position is 'Ln 8, Col 38' with 'Spaces: 4', 'UTF-8' encoding, 'CRLF' line endings, and the file is a Python script ('Python 3.13.1').

### 5. Learnings and Challenges I have Faced:

1. Gained practical experience with input handling and basic arithmetic operations in Python.
2. Understood the importance of type conversion from string to integer.

## 6. Summary of Tasks:

- ✓ **Task 1:** Python Environment Setup
- ✓ **Task 2:** Printing Personal Information
- ✓ **Task 3:** Adding Two Numbers