

Day 4 Activity – Working with Files & Modules in Python



Date: 30th July 2025



Colab Notebook Link:



[Open in Google Colab](#)

Objective

This activity helps you understand:

- How to **create, read, write, and append data to files** in Python
 - How to **import and use Python modules** like `csv` and `collections`
 - How to apply file handling to manage **student data** in real-world scenarios
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What's Covered in the Colab Notebook

- Writing student data (Name, Roll No, Phone No) to a text file
 - Reading and displaying data from file
 - Using `csv.DictReader` and `collections.Counter` to analyze data
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Assignment Tasks



Modify and extend the Colab code to complete the following tasks:

1. **Take Input from User**

- Prompt user to enter their Name, Roll No, and Phone No
- Append this data to the existing `students.txt` file

2. 🔍 **Search by Roll Number**

- Write a program that allows the user to input a Roll Number
- Display the matching student details from the file

3. 📁 **Export Summary to File**

- Create a `summary.txt` file
- Save the total number of students and list all names
- You may include any other statistics like initials count

📁 **Submission Instructions**

- Save your modified notebook and post in comment in Google Classroom day 4 with name
`StudentName-Day4-Assignment_FileHandler.ipynb`