

File I/O Practice Problem Set

October 2024

Practice Problem Set: File I/O in Python (Reading Only)

Instructions: Each problem below involves reading from a file using the method you've learned. Solve each problem using what you know about file I/O in Python.

Problem 1: Calculate Average Grade from File

You are given a text file named `grades.txt` with the following format:

```
Alice 85  
Bob 90  
Charlie 78  
Diana 92
```

Write a Python program that:

1. Opens the file and reads its contents.
2. Calculates and prints the average grade of the students.

Problem 2: Word Count in a File

Write a Python program to:

1. Open a text file called `essay.txt`.
2. Count and print the total number of words in the file.

Problem 3: Reverse File Content

You are given a text file called `quotes.txt`. Write a Python program that:

1. Reads the contents of the file.
2. Prints the lines in reverse order.

Problem 4: Search for a Word in a File

Write a Python program that:

1. Opens a text file called `log.txt`.
2. Asks the user for a word to search.
3. Finds how many times that word appears in the file and prints the count.