

Homework Assignment: File Handling in Python

Problem 1: Create and Write to a File

Instructions:

Create a Python program that allows the user to create a new text file and write data into it. Follow these steps:

1. Ask the user for the name of the file they want to create (e.g., "my_file.txt").
2. Ask the user for the content they want to write to the file.
3. Open the file in write mode and write the user's input to the file.
4. Close the file.
5. Display a success message.

Problem 2: Read and Print Data from a File

Instructions:

Create a Python program that allows the user to read data from an existing text file and print it in the command prompt. Follow these steps:

1. Use the provided sample text file ('sample.txt') for this problem.
2. Open the file in read mode.
3. Read the content of the file.
4. Print the content to the command prompt.
5. Close the file.

Grading:

Your assignment will be graded based on the following criteria:

- Correct implementation of file handling operations for both problems.
- Proper use of file open/close operations.
- Properly handling user input and displaying appropriate messages.
- Code readability and comments.

Note: Make sure to include error handling in your code, such as checking if the file exists before reading it in Problem 2.