Exercise: Basic File Operations with Date Logging

Objective:

Practice reading from and writing to files in Python, with a focus on logging entries with timestamps.

Instructions:

1. Create a New File and Log Entries with Timestamps:

   - Write a script that creates a new file named journal.txt.

   - Prompt the user to enter a few lines of text as 'journal entries.'

   - For each entry, log the current date and time (using the datetime module) and the entry into journal.txt.

   - Each line in the file should have the format:

     [YYYY-MM-DD HH:MM:SS] Entry Text

2. Read and Display File Content:

   - After writing the entries, open journal.txt in read mode.

   - Print each line from the file to the console.

3. Append More Entries:

   - Reopen journal.txt in append mode.

   - Prompt the user to add more journal entries.

   - For each new entry, log it with the current date and time at the end of the file.

4. Count Entries and Words:

   - Open journal.txt in read mode again.

- Count and display the total number of entries and words in the file.

Example Console Interaction:

Enter a journal entry (or type 'done' to finish): Today I started learning Python file handling.

Enter a journal entry (or type 'done' to finish): It's fun to work with dates too!

Enter a journal entry (or type 'done' to finish): done

Reading from journal.txt:

[2024-11-10 14:30:15] Today I started learning Python file handling.

[2024-11-10 14:30:20] It's fun to work with dates too!

Would you like to add more journal entries? (yes/no): yes

Enter additional text: I'm getting better at Python!

Counting entries and words:

Total Entries: 3

Total Words: 16

Additional Notes:

- Use datetime.datetime.now() to get the current date and time.

- Be sure to close the file after each write or read operation.

- Handle errors if journal.txt does not exist when trying to read.