LAB 06

Modules, and File Handling



Implement each parsing option in a module and create a parser package.

1. File Input:

 Ask the user to enter the path to a text file they want to parse. Ensure the file exists and handle any potential exceptions.

2. File Reading:

• Read the content of the text file.

3. Parsing Options:

- Provide the user with several parsing options, such as:
 - Count the number of lines in the file.
 - Count the number of words in the file.
 - Extract and display all email addresses from the file.
 - Extract and display all URLs from the file.
 - Search for specific keywords or phrases in the file and display their occurrences.

4. Parsing Functions:

- Implement separate functions for each parsing option, such as count_lines, count_words, extract_emails, extract_urls, and search_keywords.
- These functions should take the file's content as input and return the respective results.

5. User Interaction:

- Display a menu for the user to select which parsing option they want to perform.
- Depending on the user's choice, call the corresponding parsing function and display the results.

6. Output:

• For each parsing option, display the results to the user.

7. Save Output

• Save the parsing results to a new file.

sample.txt:

Contact Information:

- Email: user@example.com

- Phone: +1 (123) 456-7890

- Website: https://www.example.com

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	Keywords: Python, parsing, file handling, text, sample
	Here's another email: support@example.com.
	URLs:
	- https://www.python.org
	- https://www.github.com
	- https://www.stackoverflow.com