Task 2:

Objective: Write a Python script that monitors changes in a specified directory (e.g., file additions, deletions, modifications). A template script will be provided with necessary functions and their inputs.

Functionality:

a. Use a Python library (such as **watchdog**) to monitor the directory for file system changes.
b. Log changes to a file with timestamps and event types (e.g., file added, file modified, file deleted).

Requirements:

a. Track file system events (e.g., file creation, modification, and deletion).
b. Log the following for each event:
   - **Timestamp** (when the event occurred)
   - **Event type** (added, modified, or deleted)
   - **File name**
c. Output this information in a log file with the format:

YYYY-MM-DD HH:MM:SS - Event Type - "File Name"

Constraints:

a. You may not use any external systems like cloud storage monitoring. The script should work on local directories.
b. Ensure the script is robust and can handle different types of events.
c. Your script should continue running until manually stopped (i.e., use an infinite loop to listen for events).

Example Output:

```
2024-11-24 14:05:12 - added - "new_file.txt"
2024-11-24 14:15:30 - modified - "existing_file.txt"
2024-11-24 14:20:45 - deleted - "old_file.txt"
2024-11-24 14:25:00 - added - "another_file.txt"
```