**Project-02: Journal**

**Objective:**

Create a journaling program that allows users to write, name, save, and view journal entries. Each entry should have a unique name chosen by the user, making it easier to organize and retrieve specific entries.

**Recommended Programming Language:**

* Python

**Recommended by:**

* [SaladStik](https://github.com/SaladStik)

**Requirements:**

1. **Input:**
   * The program should allow the user to create a new journal entry with a title (name) of their choice.
   * Users should provide the content of the entry and assign it a name.
   * Users should specify a date for the journal entry (defaulting to the current date if not specified).
2. **Output:**
   * The program should store each entry using a chosen storage method, using the entry name as the key.
   * Users should be able to view a list of all entries by their names and select one to view its full content.
3. **Features:**
   * **Create Entry:** Allow users to write a new journal entry with a user-defined name.
   * **View Entry:** Display a list of all saved entries by their names. Users can select an entry name to view its content.
   * **Delete Entry:** Enable users to delete an entry by selecting its name.
   * **Search Entries by Name:** Provide a search feature that allows users to find entries by their names or keywords within their content.
4. **Error Handling:**
   * Ensure that the program checks for duplicate entry names and prompts the user to enter a unique name.
   * Handle cases where no entry exists for the selected name with an appropriate message.
   * Gracefully handle invalid input formats or unexpected user actions.
5. **Storage Method:**
   * *Any* – Choose any suitable storage method, such as text files, JSON, a local database, or any other format.

**Program/Menu Example:**

* **Input:** A user creates a new journal entry named "My Summer Vacation" with the content "Had a great time at the beach..."
* **Output:** The entry is saved under the name "My Summer Vacation" and can be viewed later by selecting this name from the list.

**Concepts Covered:**

* **Error Handling** (Handling incorrect inputs or failed detections)
* **Loops and Conditionals** (Sorting logic using if-else and loops)

**Hints to Get Started:**

* Think about how to structure the loop to get a valid input
* Think about how to structure the loops and conditionals statements to convert the amount

**Bonus Challenges (Optional):**

* **Edit Entry:** Implement a feature that allows users to edit the content of an existing entry by selecting its name.
* Add a feature that allows users to categorize entries (e.g., "Work," "Personal," "Travel") and filter entries by category.
* Implement password protection for opening the journal application to enhance privacy.
* Create a graphical user interface (GUI) to make it easier to navigate between entries and manage them.
* Allow users to set reminders or notifications for important entries.
* Enable users to export specific entries or all entries to a file format like PDF or plain text.

**Expected Outcome:**

By the end of this assignment, participants should be able to:

* Handle basic user input/output.
* Looping and Conditionals