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print("Daily Habit Tracker by Parth")
name= input("please enter your name:")

import json
import os
from datetime import datetime
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DATA_FILE = 'habits.json'
DATE_FORMAT = '%Y-%m-%d'

def load_habits():
    """Loads habit data from the JSON file. Creates an empty file if it doesn't exist."""
    if not os.path.exists(DATA_FILE):
        print(f"[{DATA_FILE}] not found. Starting with a new habit list.")
        return {}

    try:
        with open(DATA_FILE, 'r') as f:
            data = json.load(f)
            return data if isinstance(data, dict) else {}
    except json.JSONDecodeError:
        print(f"Error reading [{DATA_FILE}]. File might be corrupted. Starting new data.")
        return {}
    except Exception as e:
        print(f"An unexpected error occurred while loading data: {e}")
        return {}

def save_habits(habits):
    """Saves the current habit data to the JSON file."""
    try:
        with open(DATA_FILE, 'w') as f:
            json.dump(habits, f, indent=4)
            print("Data saved successfully.")
    except Exception as e:
        print(f"Error saving data: {e}")

def add_habit(habits):
    """Allows the user to add a new habit."""
    name = input("Enter the name of the new habit: ").strip()

    if not name:
        print("Habit name cannot be empty.")
        return

    habit_key = name.lower().replace(' ', '_')

    if habit_key in habits:
        print(f"Habit '{name}' already exists!")
        return

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habits[habit_key] = {
    'name': name,
    'created_at': datetime.now().strftime(DATE_FORMAT),
    'log': []
}
print(f"Habit '{name}' added successfully!")

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def log_completion(habits):
    """Allows the user to log a completion for an existing habit."""
    if not habits:
        print("No habits added yet. Please add a habit first (Option 1).")
        return

    print("\n--- Available Habits ---")
    keys = list(habits.keys())
    for i, key in enumerate(keys):
        print(f" {i+1}. {habits[key]['name']}")

    choice = input("Enter the number of the habit you completed today: ").strip()

    try:
        index = int(choice) - 1
        if 0 <= index < len(keys):
            habit_key = keys[index]

            today_date = datetime.now().strftime(DATE_FORMAT)
            habit_data = habits[habit_key]

            if today_date in habit_data['log']:
                print(f"You already logged '{habit_data['name']}' completion today ({today_date}).")
            else:
                habit_data['log'].append(today_date)
                print(f"Successfully logged completion for '{habit_data['name']}' on {today_date}.")
        else:
            print("Invalid number entered.")
    except ValueError:
        print("Invalid input. Please enter a number.")

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def view_status(habits):
    """Displays the status of all habits, including the log count and last completed date."""
    if not habits:
        print("No habits to display. Please add a habit first.")
        return

    print("\n=====")
    print("      HABIT TRACKER STATUS")
    print("=====")

    for habit_key, data in habits.items():
        name = data['name']
        log_count = len(data['log'])

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for habit_key, data in habits.items():
    name = data['name']
    log_count = len(data['log'])

    last_log = "Never"
    if log_count > 0:

        last_log = sorted(data['log'])[-1]

    print(f"\nHabit: {name}")
    print(f" - Total Completions: {log_count}")
    print(f" - Last Completed: {last_log}")

print("\n=====")

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def main():
    """Main function to run the Habit Tracker application."""
    habits = load_habits()

    while True:
        print("\n=== Simple Habit Tracker ===")
        print("1. Add New Habit")
        print("2. Log Habit Completion (Today)")
        print("3. View All Habit Status")
        print("4. Save & Exit")

        choice = input("Enter your choice (1-4): ").strip()

        if choice == '1':
            add_habit(habits)
        elif choice == '2':
            log_completion(habits)
        elif choice == '3':
            view_status(habits)
        elif choice == '4':
            save_habits(habits)
            print("Thank you for using the tracker. Goodbye!")
            break
        else:
            print("Invalid choice. Please enter a number between 1 and 4.")

if __name__ == "__main__":
    main()

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