ISKALARSync

Objectives:

Our objective is to help students who are always flooded with activities, assignments, projects, etc. to ensure that they don't have to cram everything. To feel motivated and proud of their progress, we also aim to give them words of reassurance through the program itself.

Planned inputs and outputs:

The program will ask the user to input requirements, activities, etc. and will ask them to classify which subjects these requirements belong under. The program will also ask the difficulty of a task based on a 1-10 scale, and will also ask for the due date, and deadliest due date, in which the program will automatically prioritize the tasks with the highest difficulty rating, and nearest due date.

Logic plan:

```
import random

subjects = [
    "Earth Science", "Algebra", "Geometry", "Biology", "VALED", "PEHM",
    "English", "Filipino", "ADTECH", "Social Science", "Computer Science",
    "Physics", "Chemistry"
]

tasks = []

badges = [
    "Great job! You're a task slayer!",
    "You crushed it! Keep going!",
    "Another one done! You're on fire!",
    "Well done! Your future self is proud!",
    "You're doing better than you think!"
]

while True:
    print("\nWhat do you want to do?")
    print("1 - Add a new task")
    print("2 - View all tasks")
    print("3 - Mark a task as done")
    print("4 - Exit")

    choice = input("Enter your choice: ")
```

```
if choice == "1":
    name = input("What is the task? ")

    print("\nWhich subject is this task for?")
    for i in range(len(subjects)):
        print(str(i + 1) + " - " + subjects[i])

    try:
        subject_number = int(input("Enter subject number: "))
        if subject_number < 1 or subject_number > len(subjects):
            print("Invalid subject number.")
            continue
    except ValueError:
        print("Please enter a number.")
        continue

    subject = subjects[subject_number - 1]

    try:
        difficulty = int(input("How hard is it? (1 to 10): "))
        if difficulty < 1 or difficulty > 10:
            print("Difficulty must be between 1 and 10.")
            continue
    except ValueError:
        print("Please enter a number.")
        continue

    due_date = input("When is it due? (YYYY-MM-DD): ")

    task = {
        "name": name,
        "subject": subject,
        "difficulty": difficulty,
        "due_date": due_date,
        "done": False
    }

    tasks.append(task)
    print("Task added!")

elif choice == "2":
    print("\nHere are your tasks:")
    pending_tasks = [task for task in tasks if not task["done"]]
```

```
        if len(pending_tasks) == 0:
            print("No tasks! You're all caught up.")
        else:
            for number, task in enumerate(pending_tasks, 1):
                print(str(number) + " - " + task["name"] + " | Subject: " + task["subject"] +
                      " | Difficulty: " + str(task["difficulty"]) + " | Due: " + task["due_date"])

    elif choice == "3":
        unfinished = [task for task in tasks if not task["done"]]

        if len(unfinished) == 0:
            print("No tasks to complete.")
            continue

        print("\nWhich task did you finish?")
        for i, task in enumerate(unfinished):
            print(str(i + 1) + " - " + task["name"] + " (" + task["subject"] + ")")

        try:
            done_number = int(input("Enter the number of the task you finished: "))
            if done_number < 1 or done_number > len(unfinished):
                print("Invalid task number.")
                continue
        except ValueError:
            print("Please enter a number.")
            continue

        unfinished[done_number - 1]["done"] = True
        print("\nNice work! " + random.choice(badges))

    elif choice == "4":
        print("Goodbye!")
        break

    else:
        print("Please enter a valid option (1 to 4).")
```

END

GitHub Repository LInk: https://github.com/KZCortez/CS2-JASMINE_Cortez-Avestruz-project