# Assignment 1: Simple Task Manager

**Background:**

Develop a simple task manager application to help users organize their tasks efficiently. The application should enable users to add, delete, and prioritize tasks, with an option to mark tasks as completed. Your goal is to create a user-friendly system for basic task management.

**Requirements:**

Task Representation:

Define a data structure to represent tasks, including attributes such as task name, priority level, and completion status.

Task Addition and Deletion:

Create functions that allow users to add and delete tasks. Users should be able to add a new task with a name and priority level and delete a task by specifying its name.

Task Prioritization:

Develop a mechanism to prioritize tasks based on their priority levels. Tasks with higher priority levels should be processed or displayed before tasks with lower priority levels.

Task Completion:

Implement a feature that enables users to mark tasks as completed.

**Submission Guidelines:**

1. Provide a concise overview of your task manager design.
2. Include the data structure definition for representing tasks.
3. Present code snippets or pseudocode for each required functionality.

# Assignment 2: Student Course Registration System

**Background:**

You are tasked with designing a simple database system to manage student course registrations. The system should store information about students, courses, and their registration details. The goal is to create a relational database that facilitates efficient querying and reporting.

**Entities:** Students,Courses, Registrations

**Database Schema:**

Design the database schema with the specified tables and relationships. Clearly define primary keys, foreign keys, and any constraints.

**Queries:**

Write SQL queries to perform the following tasks:

1. Retrieve a list of all students enrolled in a specific course.
2. Get the details of a student's course registrations, including the course name and instructor.
3. Find courses with no registered students.
4. Insert a new student into the database.
5. Add a new course to the system.
6. Register a student for a course.
7. Remove a student from a course.

**Submission Guidelines:**

1. Provide the complete database schema with table definitions and relationships.
2. Include the SQL queries and statements for the specified tasks.