**Assignment 2- MySQL with Python**

In this assignment, you'll be tasked with creating a simple database application that manages a list of students. The application will allow you to add new students, retrieve student information, update student records, and delete student entries.

**Task 1: Database Setup**

1. Install the mysql-connector-python package if not already installed.
2. Create a MySQL database named university.
3. Create a table named students with the following fields:

id (INT, PRIMARY KEY, AUTO\_INCREMENT)

name (VARCHAR)

age (INT)

gender (VARCHAR)

major (VARCHAR)

**Task 2: Python Script**

Write a Python script that accomplishes the following tasks:

1. Connect to the MySQL database.
2. Provide a menu to perform the following operations:
3. Add a new student.
4. Retrieve student information by ID.
5. Update student information.
6. Delete a student record.
7. Exit the program.

**Solution: (Complete Code):**