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import sqlite3

conn = sqlite3.connect("students.db")
cursor = conn.cursor()

cursor.execute("""
CREATE TABLE IF NOT EXISTS students (
    id INTEGER PRIMARY KEY AUTOINCREMENT,
    name TEXT NOT NULL,
    roll_no TEXT NOT NULL UNIQUE,
    cgpa REAL
)
""")
conn.commit()

def add_student(name, roll_no, cgpa):
    cursor.execute("INSERT INTO students (name, roll_no, cgpa) VALUES (?, ?, ?)", (name, roll_no, cgpa))
    conn.commit()
    print("Student Added Successfully")

def view_students():
    cursor.execute("SELECT * FROM students")
    rows = cursor.fetchall()
    for row in rows:
        print(row)

def delete_student(roll_no):
    cursor.execute("DELETE FROM students WHERE roll_no = ?", (roll_no,))
    conn.commit()
    print("Student Deleted Successfully")

while True:
    print("\n=== Student Record System ===")
    print("1. Add Student")
    print("2. View Students")
    print("3. Delete Student")
    print("4. Exit")

    choice = input("Enter choice: ")

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if choice == "1":
    name = input("Enter Name: ")
    roll_no = input("Enter Roll No: ")
    cgpa = float(input("Enter CGPA: "))
    add_student(name, roll_no, cgpa)

elif choice == "2":
    view_students()

elif choice == "3":
    roll_no = input("Enter Roll No to Delete: ")
    delete_student(roll_no)

elif choice == "4":
    print("Exiting...")
    break

else:
    print("Invalid Choice")
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conn.close()
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