

Python Assignments

1. Database Connection

Write a Python program to connect to a MySQL database and print "Connection Successful" if the connection is established.

2. Create Table

Write a Python script to create a table students with fields:

- id (INT, primary key, auto-increment)
- name (VARCHAR(50))
- age (INT)
- grade (VARCHAR(10))

3. Insert Records

Write a Python program to insert at least 5 student records into the students table.

4. Fetch All Records

Write a Python program to fetch and display all records from the students table.

5. Fetch with Condition

Write a Python program to fetch and display all students whose age is greater than 18.

6. Update Record

Write a Python program to update the grade of a student (by ID).

7. Delete Record

Write a Python program to delete a student record by ID.

8. Search Student by Name

Write a Python program that asks the user for a student's name and retrieves their details from the students table.

9. Count Students

Write a Python program to count how many students are in the table.

10. Sort Records

Write a Python program to display all students sorted by age in descending order.