

Python Module - End Project

Build a Python-based **Student Management System** using the concepts of Python programming covered in your syllabus. This system should allow users (admin/teacher) to add, view, update, and delete student records.

- 1. Login System (3 marks)**
 - Predefined login credentials (username/password).
 - Basic password checking.
- 2. Add New Student Record (3 marks)**
 - Input fields: Name, Roll Number, Age, Department, Marks.
- 3. View Student Record (3 marks)**
 - Display all student data in a user-friendly format.
- 4. Update Student Details (3 marks)**
 - Allow editing any field based on Roll Number.
- 5. Delete Student Record (3 marks)**
 - Remove a student based on Roll Number.
- 6. Exit Option (1 mark) : Clean exit with proper messages.**
- 7. Use File Handling to store student data persistently (3 marks) : Read from and write to a file (students.txt or .csv).**
- 8. Search student by name or department (1 mark)**
- 9. Auto-generate student ID (1 mark)**
- 10. View top-performing students (using marks)(1 mark)**
- 11. Use modules like datetime to show time of entry(1 mark)**
- 12. Create a custom module for repeated functionalities (e.g., validation) (1 mark)**
- 13. Handle invalid inputs using exception handling (1 mark)**