

PROJECT 3: EDUCORE – Student Performance Tracker

Description

A CLI app to record student marks, attendance, and generate report cards. Ideal for schools or teachers tracking class progress.

Scenario

Teachers can manage academic data per student and get instant GPA or performance insights.

Menu

```
===== EDUCORE - Student Performance Tracker
=====
```

1. Add New Student
2. Add New Course
3. Record Marks
4. Record Attendance
5. Calculate GPA
6. Generate Report Card
7. View Top Performers
8. View Course-Wise Averages
9. View Attendance Summary
10. Exit

Enter your choice:

Functions Needed

```
def add_student(student_id, name, grade) def add_course(course_id, course_name,
instructor) def record_marks(student_id, course_id, marks) def
record_attendance(student_id, course_id, present) def calculate_gpa(student_id) def
generate_report_card(student_id) def get_top_performers(grade, count) def
course_average(course_id) def attendance_summary(student_id)
```

Sample Output

```
=== REPORT CARD === Student: Riya Mehta (S102) Grade: 9 GPA: 8.7 Attendance: 92% Top
Subjects: Math (95), English (91) Remarks: Excellent progress! █
```

Edge Cases

Missing marks or attendance data GPA division by zero Invalid student/course IDs
Student not enrolled but marked present