**The Apollo University**

**Department of Computer Science and Engineering**

**Artificial Intelligence and Machine Learning**

**Second Semester**

**Project Title**

**Student Report Card System**

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**Project Title**

Student Report Card System – Developed in Turbo C

**Problem Statement**

The purpose of this project is to develop a simple and functional Student Report Card System in Turbo C, allowing users to input student details and marks, calculate totals and percentages, and generate a neat report. The project should run successfully in Turbo C IDE and simulate a basic grading system using a menu-based console interface.

**Objectives**

• To understand and implement a console-based C program for academic data management.  
• To allow users to:  
 - Input student details and subject marks  
 - Calculate percentage and grade  
 - Display a formatted report card  
• To practice usage of functions, conditionals, and structured programming in C.  
• To build a working program using Turbo C, compatible with legacy systems.

**Methodology**

• Platform Used: Turbo C (via TurboSeq or DOSBox)  
• Language: C Programming  
• Header Files: stdio.h, conio.h  
• Approach:  
 - Create functions for each operation (input, calculation, display)  
 - Use clrscr() and getch() for screen management (Turbo C only)  
 - Implement conditional logic for grade calculation  
 - Display data in a formatted table using printf()

**Code Explanation**

• Main Menu: Offers options to add records, view report, or exit.  
• Student Input Function: Collects name, roll number, and marks for subjects.  
• Calculation Logic:  
 - Total = Sum of marks  
 - Percentage = (Total Marks / Max Marks) \* 100  
 - Grade assigned using if-else based on percentage.  
• Display Function: Shows all entered student data in a tabular format.  
• Turbo C Functions:  
 - clrscr() – clears the screen  
 - getch() – waits for a key press

**Special Note**

This project is strictly developed in Turbo C, and is not compatible with modern compilers like GCC, VS Code, Code::Blocks, etc., due to the use of legacy functions and headers such as conio.h, clrscr(), and getch().

**Conclusion**

This project helped in gaining practical knowledge of:  
• Structuring C programs  
• Handling user input/output  
• Designing menu-driven systems  
• Implementing logic for academic grading systems  
  
The report card system successfully fulfills its goals within the Turbo C environment and demonstrates a clear understanding of function-based program design and legacy compiler usage.