

# National University of Computer & Emerging Sciences Karachi Campus



## Student Record Management System

### Project Report Section: 1G

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# 1 Introduction

This project is dedicated to creating a database to store students records of their marks and calculating and saving GPA as well .Program takes records from user and saves each record in the text file.

## 2 Project Specification

Software Specs:

- Main function calls different functions depending on user choice of input.
- add\_record function adds the record in database
- delete\_a\_record function deletes one record in database, asks user ID to delete.
- update function is used to update any information in a record, asks user ID to update information.
- display\_all function displays all records.
- display\_one displays one record.
- search function searches particular string in an array.
- getGPA function returns GPA.

Tools, and Technologies:

Programming Language: C language  
Platform: Dev - C ++

## 3 Problem Analysis

**Problem:** How to keep record of all students.

**Input:** Marks of all tests and assignments.

**Process:** calculate gpa and store information in a text file.

## **4 Solution Design**

- add\_record function stores data in a structure and then writes data in a text file.
- display\_all function displays all the data stored and display\_one displays one record by reading from text file and storing data in a structure.
- update and delete\_a\_record functions is used to make amendments in data and delete data respectively. Both functions make a temporary text file and stores updated data ,or data without the record to be deleted in delete\_a\_record function, then stores the data in main text file.,

## **5 Project Breakdown**

Project Student Record Management System have been built, and managed by Muhammad Anas.

## **6 Results**

Program will keep record of all students. It will also make changes in record or delete a record if user requires it.