

SE 1105 PROGRAMMING AND PROBLEM SOLVING I

Lab Assignment 3

Task: Student Grade Management System

Develop a C program that manages the grades of students in different subjects. The program should:

Instructions:

1. Define an enum named LetterGrade with following possible values: A, B, C, D, and F.
2. Create a 2D 6x4 LetterGrade array to represent the grades of six different students in four subjects, where each row represents a student, and each column represents a subject. Initialize the array with F letter grades for all subjects.
3. Implement a menu system that allows users to choose from the following options:
 - **Display the grades:** Show a visual representation of grades of each student for all subjects.
 - **Change Letter Grade:** Allow the user to input a student and subject index, then ask user to select a new grade.
 - **Count Failures:** Count and display the number of fails (F grades) in all subjects.
 - **Exit:** Displays a farewell message and exits the program.
4. Use a for loop to repeatedly display the menu and process the user's choice until the user selects "Exit."

Note: Use #define for constants and typedef to simplify data types wherever possible.

