

## **Problem Statement 1: Student Grade Calculator**

You are tasked with creating a C++ program to calculate and display the final grades of a class of students. The program should allow the user to input the number of students, their names, and their scores for three assignments.

Here are the specific requirements for your program:

Input:

Ask the user to input the number of students in the class.

For each student, input their name and three assignment scores (score range: 0-100).

Grading:

Calculate the average score for each student based on their assignment scores.

Use the following grading scale:

A: 90-100

B: 80-89

C: 70-79

D: 60-69

F: Below 60

Output:

Display each student's name, assignment scores, average score, and corresponding letter grade.

Control Structures:

**NOTE: Use appropriate control structures (if, else if, switch, for, while, do while) to achieve the desired functionality.**

**Handle situations where the user enters invalid scores (e.g., scores below 0 or above 100).**

**Problem statement 2: Problem Statement: Student Exam Scores**

You are tasked with creating a C++ program to manage and analyze student exam scores. The program should allow the user to input exam scores for a class of students, perform calculations, and display results.

Here are the specific requirements for your program:

**Use 2-D Array:**

- Input:
  - Create a 2-D array to store exam scores for multiple subjects (e.g., Math, Science, English) for each student.
  - Input the exam scores for each student in each subject.
- Calculation:
  - Calculate the average score for each subject.
  - Determine the highest and lowest scores in each subject.
- Output:
  - Display the average score for each subject.
  - Display the highest and lowest scores in each subject.
- Additional Requirements:
  - Use functions to modularize your code.
  - Handle input validation (e.g., ensure scores are within a valid range).
  - Provide clear prompts and user-friendly messages.