C Language

Project - 2

Simple Grade Calculator

Project Definition: Simple Grade Calculator

Overview:
This project aims to develop a Simple Grade Calculator program in C language that demonstrates the use of various control flow statements. The program will take a score out of 100 as input from the user, calculate the corresponding grade using a ternary operator, provide additional comments based on the grade using a switch-case statement, and check eligibility for the next level based on the grade using an if-else statement.

Time Allocation:
- Total Duration: 1 Hour
- Total Marks: 10

Instructions:
1. Attempt all assigned tasks.
2. Make suitable assumptions wherever necessary.
3. Upload your exam task by uploading the project to GitHub and submitting the GitHub repository link which must have screenshots of your output in a README.md file.
4. This project is individual-based; copying code from classmates is prohibited.

Remember to follow the instructions provided professionally, make suitable assumptions wherever necessary, and avoid copying code or content from any unauthorized sources. Good luck with your project work!

Problem Statements:
Step 1: Grade Calculation
Develop a program that takes a score out of 100 as input from the user and calculates the corresponding grade using a ternary operator. Allocate grades from A to F for various ranges.

Example:
Input: Enter your score: 92
Output: Your grade is A

Marking Criteria: (Total 4 Marks)
Logic: 3 Marks
Output: 1 Marks

Step 2: Additional Comments

Extend the program to provide additional comments based on the grade using a switch-case statement. For example, if the grade is 'A', then print 'Excellent work!'. If the grade is 'B', then print 'Well done'. If the grade is 'C', then print 'Good job'. If the grade is 'D', then print 'You passed, but you could do better'. And if the grade is 'F', then print 'Sorry, you failed'.

Example:
Input: Enter your score: 92
Output: Your grade is A. Excellent work!

Marking Criteria: (Total 4 Marks)
Logic: 3 Marks
Output: 1 Marks

Step 3: Eligibility Check
Further, extend the program to check eligibility for the next level based on the grade using an if-else statement. Print 'Congratulations! You are eligible for the next level' if the grade is from 'A' to 'D'. Print 'Please try again next time' if the grade is 'F'.

Example:
Input: Enter your score: 85
Output: Your grade is A. Excellent work! You are eligible for the next level.

Marking Criteria: (Total 2 Marks)
Logic: 1 Marks
Output: 1 Mark

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BRING ON YOUR CODING ATTITUDE