Activity No. <4.1>	
<Switch Case >	
Course Code: CPE007	**Program:** Computer Engineering
Course Title: Switch Case	**Date Performed:9/10/25**
Section:CPE11S1	**Date Submitted:9/10/25**
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6. Output
Code:

main.cpp — Share — Run

```cpp
#include <iostream>
#include <iomanip>

int main() {
    int physics, biology, math;

    // Prompt user to enter marks for three subjects
    std::cout << "Physics      : ";
    std::cin >> physics;
    std::cout << "Biology      : ";
    std::cin >> biology;
    std::cout << "Math         : ";
    std::cin >> math;
    std::cout << "_________________" << std::endl;

    // Calculate total marks and percentage
    int total_marks = physics + biology + math;
    double percentage = (static_cast<double>(total_marks) / 300.0) * 100.0;

    // Display the average
    std::cout << std::fixed << std::setprecision(2);
    std::cout << "Average is : " << percentage << std::endl;

    // Use a switch statement to determine the grade
    int grade_level = static_cast<int>(percentage / 10);

    std::cout << "Grade Level: ";
    switch (grade_level) {
        case 10:
        case 9:
            std::cout << "A" << std::endl;
            break;
        case 8:
            std::cout << "B" << std::endl;
            break;
        case 7:
```

Output

```
Physics      : 90
Biology      : 90
Math         : 80
_________________
Average is : 86.67
Grade Level: B


=== Code Execution Successful ===
```

Pseudo Code:
START

DECLARE three variables for marks: physics_marks, biology_marks, and math_marks.

PROMPT the user to enter marks for each subject.

READ the marks into the respective variables.

CALCULATE the total_marks by summing the three subject marks.

CALCULATE the percentage by dividing total_marks by the maximum possible total (300) and multiplying by 100.

PRINT the average percentage.

CONVERT the percentage to an integer group by dividing by 10.

SWITCH on the percentage_group:

IF percentage_group is 10 or 9: PRINT "Grade A".

IF percentage_group is 8: PRINT "Grade B".

IF percentage_group is 7: PRINT "Grade C".

IF percentage_group is 6: PRINT "Grade D".

IF percentage_group is 5 or 4: PRINT "Grade E".

DEFAULT (any other case): PRINT "Grade F".

END

7. Supplementary Activity

8. Conclusion I learn the simple percentage of the coding but im c++ is not compatible in my pc that's why I use this programiz

9. Assessment Rubric