

Attendance Calculator

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Abstract

The Attendance Calculator is a C programming mini project developed to calculate a student's attendance percentage. The program takes total working days and attended days as input and calculates the attendance percentage. It also checks whether the student is eligible based on minimum attendance criteria. This project demonstrates the use of conditional statements, arithmetic operations, and user input handling in C.

Introduction

Maintaining attendance is important in educational institutions. Students must maintain a minimum percentage to be eligible for exams.

This project solves the problem of manually calculating attendance percentage. It automates the calculation and determines eligibility instantly.

- Schools
- Colleges
- Academic institutions

Objectives

- Understand structured programming
- Use loops and conditional statements
- Perform percentage calculations
- Improve logical thinking
- Work with user input and output

Tools & Technology

- Programming Language: C
- Compiler: GCC / CodeBlocks
- Platform: Windows / Linux

System Requirements

- Hardware: Computer with minimum 4GB RAM
- Software: C Compiler
- IDE: CodeBlocks / VS Code / Turbo C

Methodology / Algorithm

- Start the program
- Read total working days
- Read attended days
- Calculate attendance percentage
- If percentage $\geq 75 \rightarrow$ Eligible
- Else \rightarrow Not Eligible
- Display result
- End program

Flowchart

Start \rightarrow Input Days \rightarrow Calculate Percentage \rightarrow Check Condition \rightarrow Display Result \rightarrow End

Program Code

```
#include <stdio.h>

int main() {
    int total_days, attended_days;
    float percentage;

    printf("Enter total working days: ");
    scanf("%d", &total_days);

    printf("Enter attended days: ");
    scanf("%d", &attended_days);

    percentage = (attended_days * 100.0) / total_days;

    printf("Attendance Percentage: %.2f%%\n", percentage);

    if (percentage >= 75) {
        printf("Status: Eligible for Exam\n");
    } else {
        printf("Status: Not Eligible for Exam\n");
    }

    return 0;
}
```

Sample Input / Output

Input: Total Days = 100, Attended Days = 80

Output: Attendance Percentage: 80.00%, Status: Eligible for Exam

Result

The program executed successfully and correctly calculated attendance percentage and eligibility status.

Applications

- Student attendance monitoring
- Academic eligibility checking
- Learning C programming concepts

Conclusion

The Attendance Calculator project demonstrates fundamental C programming concepts such as input/output operations, arithmetic calculations, and conditional statements. It helps in understanding real-world problem solving using C.

Future Enhancements

- Add file handling
- Store multiple student records
- Create menu-driven interface
- Add graphical interface

References

- C Programming Textbooks
- Online tutorials
- Classroom notes