

# ATTENDANCE CALCULATOR

## 1. Title

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Course: Programming in C

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## 2. 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.

## 3. 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

## 4. Objectives

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

## 5. Tools & Technology

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

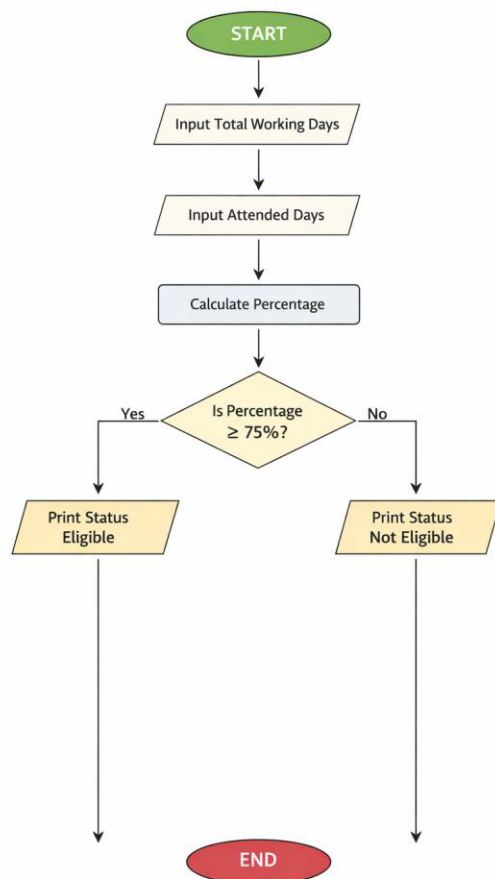
## 6. System Requirements

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

## 7. 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

## 8. Flowchart



## 9. 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;
}
```

### **10. Sample Input / Output**

Input: Total Days = 100, Attended Days = 80

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

### **11. Result**

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

### **12.Applications**

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

### **13. 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.

### **14. Future Enhancements**

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

### **15. References**

- C Programming Textbooks
- Online tutorials
- Classroom notes