

Project Name: Digital Clock with Date and Alarm

Project proposal:

A console-based digital clock with a seven-segment style interface, real-time and real date updates and a flexible alarm feature.

1. Seven-Segment Display: Utilizes predefined patterns for each digit(0-9), enhancing the visual appeal of the digital interface.

2. Real-Time and Date Updates: The clock dynamically updates the console display to accurately represent both the current time and date.

3. Alarm Functionality: User can set alarms and receive notifications when the specified time is reached.

Instructed Updates:

1. We are instructed to add multiple alarm and display the already set alarms after starting the program.
2. To add feature of adding or deleting any alarm from the list and maintain a list of recent 10 alarms for display.
3. Use Extended ASCII character to represent the digit of the clock.

Implemented features:

1. We have implemented a C++ program that introduces a console-based digital clock which showcases both 24-hour and 12-hour time formats, featuring AM/PM indicators as needed.
2. The clock has features of displaying the current date, including day, month and year information.
3. It has user friendly interface for alarm setting and management.

New Added Features:

1. After getting instruction, we have added new features in our project. Adding a structure to show alarm list is one of them.
2. Then we implemented the feature of adding or deleting a alarm from the list which is more user- friendly for the users.
3. We have kept some specific key and intruction so that user can easily see the alarm list and add or delete any alarm from it.

Features which is not implemented yet:

- I. We have tried our best to update our program according to the instruction. Most of the features are implemented but we are unable to use The Extended ASCII character for representing the digit of the clock.

Difficulties we have faced:

When we first make alarm list, only the recently added alarm used to work. We faced problems to implement the function so that all the alarms work properly.

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