**PROJECT ABSTRACT**

**Title: "DIGITAL CLOCK WITH ALARM USING 8051 "**

**Section No:2B**

**Aim:**

The aim of this project is to design and implement a digital clock with an alarm feature using the 8051 micro-controller. The project will provide real-time clock functionality and allow users to set an alarm, demonstrating efficient use of hardware interfacing and embedded systems programming with the 8051 micro-controller.

**INTRODUCTION:**

A digital clock with an alarm is a device that displays time in a digital format and allows users to set alarms for specific times. This project involves designing such a clock using the **8051 micro-controller**, a widely used micro-controller in embedded systems. The clock will be equipped with a **Real-Time Clock (RTC)** module to keep track of time accurately and an **LCD** or **7-segment display** for visual output. The user can set the time and alarm using buttons, and when the current time matches the alarm time, a buzzer will be activated to alert the user. This project demonstrates key concepts in hardware interfacing and embedded system design.

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