**REAL TIME BATTERY MONITORING AND LOW VOLTAGE ALERT SYSTEM**

**AIM:**

The main aim of this project is to indicate the battery level with low voltage intimation using buzzer.

**PURPOSE:**

The purpose of the project is to indicate the voltage when the voltage is below the threshold value by using buzzer.

**BLOCK DIAGRAM:**

POWER SUPPLY

**MICRO
CONTROLLER**

LCD DISPLAY

BATTERY

 ADC

VOLTAGE SENSOR

BUZZER

**DESCRIPTION:**

Now-a-days technology has developed to a large extend. At the same time the need for systems with automation and high security are preferred. In this project we are indicating low voltage of battery by using buzzer. In this project for demo purpose we are using one battery. We are using VOLTAGE sensor to sense voltage values at the battery and ADC is to convert analog signal into digital. That converted data is given to microcontroller. MC checks whether voltage value is below threshold level or not. If it is below the threshold value, then it gives alert by using buzzer.

This project uses regulated 5V, 500Ma power supply, 7805 three terminal voltage regulator is used for voltage regulation. Bridge type full wave rectifier is used to rectify the ac output of secondary of 230/12V step down transformer.

**HARDWARE COMPONENTS:**

* Micro controller
* Power supply
* LCD
* Voltage Sensor
* ADC
* Buzzer

**SOFTWARE TOOLS:**

* Keil u-Vision
* Embedded ‘C’
* ISP
* Express PCB

**APPLICATIONS:**

1. Used in automobile industry.

**RESULT:** Hence, by using this project we can monitor the voltage values of battery and giving the alerts by using buzzer.