

## ***Microprocessor Project topics***

### **Gas Detection and PPM Measurement using PIC Microcontroller and MQ Gas Sensors**

The project utilizes the PIC16F877A microcontroller to detect and measure gas concentrations in the air, such as carbon monoxide, methane, or LPG, using MQ gas sensors. The analog signal from the sensor is converted to a digital value by the microcontroller's built-in ADC, which then processes the data to calculate the gas concentration in parts per million (PPM). This value is displayed on an LCD or LED screen.

### **Interfacing DHT11 with PIC16F877A for Temperature and Humidity Measurement**

The project involves using the DHT11 sensor to measure temperature and humidity levels in the environment and interfacing it with the PIC16F877A microcontroller. The DHT11 sensor provides a digital output that contains the temperature and humidity data, which is read by the microcontroller using a specific communication protocol (single-wire data transfer). The PIC16F877A processes the data and converts it into readable values, which can be displayed on an LCD or sent to other devices.

### **Fingerprint-Based Attendance System**

The project uses a fingerprint sensor to record attendance, interfacing it with a microcontroller like the PIC16F877A. The fingerprint sensor scans and stores unique fingerprint data, which is then matched with pre-registered templates in the system. When a person places their finger on the sensor, the system compares the scanned fingerprint with stored data to verify identity. If the match is successful, the microcontroller logs the time and date of attendance. The data can be displayed on an LCD and/or stored in memory or a database for further analysis.

### **Automated Pet Feeder**

The project involves designing a system that automatically dispenses food for pets based on a pre-set schedule or trigger, using a microcontroller like the PIC16F877A. The system uses components such as a motor to control the food dispensing mechanism, a real-time clock (RTC) to schedule feeding times, and sensors (e.g., weight or infrared) to detect the pet's presence. The microcontroller coordinates these elements, activating the motor to dispense food at the right times or when the pet is detected.

### **PIC16F877A Microcontroller Based Digital Alarm Clock**

The project involves designing a digital clock using the PIC16F877A microcontroller, which controls the display of time and the activation of an alarm function. The microcontroller interfaces with a **real-time clock (RTC) module** like the DS3231 to keep accurate time, and a **7-segment display** or **LCD** to show the current time. The system allows users to set an alarm time, and once the set time is reached, the microcontroller triggers an alarm, which can be an audible sound (using a **buzzer** or speaker).

### **PIC Based Car Battery Voltage Monitoring System**

The project uses a PIC microcontroller, like the PIC16F877A, to monitor and display the voltage level of a car's battery in real-time. The system interfaces with a **voltage sensor** (often a

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**Lauren Gardner**



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