Sensors Application Using Pic16f877a Microcontroller

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Sensors Application Using PIC16F877A Microcontroller ...
Hence for every 1 degree increase in temperature there will be a increment of 10m volt in output voltage of LM35 sensor. PIC16F877A microcontroller is used to measure analog voltage value. PIC16F877A microcontroller built in ADC (analog to digital converter) is used to measure analog voltage. PIC16F877A PORTA have seven built in ADC channels.

Temperature Sensor using PIC microcontroller
In this tutorial, we are making a Digital Thermometer using PIC microcontroller and LM35 Temperature Sensor. In this project, we will sense the temperature using LM35 and display it on 16×2 LCD. LM35 Temperature Sensor is accurate and cheaper and doesn't require any external calibration. The output voltage is proportional to Celsius temperature scale and changes by 10mV […]

Temperature sensor using PIC16F877A microcontroller
In this tutorial we are going to see Rain Sensor Interfacing with PIC16F877A. Post Contents1 Prerequisites2 Components Required3 Introduction4 Rain Drop Sensor4.1 Specifications4.2 Working Principle of Rain Drop Sensor5 Rain Sensor Interfacing with PIC16F877A5.1 Connection5.1.1 Rain Sensor5.1.2 LCD5.2 Source Code6 Troubleshooting Rain Sensor Prerequisites Before start this tutorial we should ...

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Sensors Application Using Pic16f877a Microcontroller
LDRs can be used to control the shutter speed on a camera. The LDR would be used to measure the light intensity which then adjusts the camera shutter speed to the appropriate level. LDR Sensor Interfacing with PIC16F877A LDR Sensor is a Analog Sensor.

LDR Sensor Interfacing with PIC16F877A | EmbeTronicX
In this tutorial, we are making a Digital Thermometer using PIC microcontroller and LM35 Temperature Sensor. In this project, we will sense the temperature using LM35 and display it on 16x2 LCD. LM35 Temperature Sensor is accurate and cheaper and doesn't require any external calibration. The output voltage is proportional to Celsius temperature scale and changes by 10mV per °C.

Digital Thermometer using LM35 and PIC Microcontroller ...
The most popularly used Temperature sensor next to LM35 is the DHT11, we have previously built many DHT11 Projects by interfacing it with Arduino, with Raspberry Pi and many other development boards. In this article, we will learn how to interface this DHT11 with PIC16F87A which is an 8-bit PIC Microcontroller.

Interfacing DHT11 with PIC16F877A ... - PIC Microcontroller
Interfacing PIC microcontroller with LM35 sensor – mikroC Projects Interfacing PIC16F877A with DS18B20 temperature sensor The DS18B20 sensor is a 3-pin electronic component (like a simple transistor) from Maxim (formerly Dallas) which uses 1-wire protocol to communicate with master device (microprocessor, microcontroller ….).

Interfacing DS18B20 sensor with PIC microcontroller ...
PIC16f877a finds its applications in a huge number of devices. It is used in remote sensors, security and safety devices, home automation and many industrial instruments. An EEPROM is also featured in it which makes it possible to store some of the information permanently like transmitter codes and receiver frequencies and some other related data.

PIC16F877A Microcontroller Introduction and Features
In this paper the two sensors are used which are Light Dependent Resistor LDR sensor to indicate a day/night time and the photoelectric sensors to detect the movement on the street. the...

Automatic Street Light Control System Using Microcontroller
The HC-SR04 is an ultrasonic sensor which can be used to measure distance anywhere between 2cm to 450cm (theoretically). This sensor has proved itself worthy by fitting into many projects which involves obstacles detection, distance measuring, environment mapping etc. At the end of this article you will learn how this sensor works and how to interface it with PIC16F877A microcontroller to measure the distance and display it on the LCD screen.

Interfacing Ultrasonic Sensor HC-SR04 with PIC Microcontroller
Then the microcontroller waits for 60 sec before it starts monitoring the PIR sensor output. This wait time is required for the PIR sensor to stabilize when first powered on. When the microcontroller detects the sensor is triggered, it drives the piezo buzzer with a 3725 Hz square wave. MikroC has built-in library for generating sound (Sound ...

Motion detection alarm using a PIR sensor module with a ...
The microcontroller used in the project is PIC 16F877A. It is an 8-bit microcontroller. The main functions of the microcontroller are reading the values from the soil moisture sensor, displaying appropriate messages on the LCD and controlling the relay to the motor. Soil Moisture Sensor Module

Auto Irrigation System using Soil Moisture Sensor and PIC ...
Here you will get idea about the programming of PIC Microcontroller to interface with CAN Controller (MCP2515) to act as a transceiver. Here two PIC16f887 Microcontrollers are used, one is for sensing the temperature using LM35 and another one is to display the values received through the CAN BUS.

TEMPERATURE SENSING USING PIC MICROCONTROLLER CAN INTERFACE
PIC16F877A and PIC18F4520 are two such MCUs. Consider the operating voltage of your system. If they are 5V then select a 5V MCU some sensors or devices work and communicate on 3.3V in such case a 3.3V MCU can be selected. If size and price is a limitation then you can choose small 8-pin MCUs like PIC12F508.

PIC16F877A Microcontroller - Components101
Interfacing PIC16F877A with HC-SR04 ultrasonic sensor Distance measurement using PIC16F877A microcontroller and HC-SR04 ultrasonic sensor The distance to an obstacle can be measured with the low cost ultrasonic sensor HC-SR04 (HC-SR05). The HC-SR04 sensor can measure distances form 2 to 400cm with an accuracy of 3mm.

Interfacing PIC16F877A with HC-SR04 ultrasonic sensor
This post shows how to interface Microchip PIC16F877A microcontroller with BMP280 barometric pressure and temperature sensor. Values of the temperature and the pressure are displayed on 16×2 LCD screen connected to the microcontroller. In this project the BMP280 sensor is used in I2C mode and the compiler used is CCS PIC C.

Interfacing PIC MCU with BMP280 temperature and pressure ...
PIC16F877A is used in many PIC microcontroller projects. PIC16F877A also have many application in digital electronics circuits. PIC16f877a finds its applications in a huge number of devices. It is used in remote sensors, security and safety devices, home automation and in many industrial instruments.