**Requirements**

## Introduction

* We will discuss how we write an ADC program in the C programming language. How a digital LM35 sensor use to display the reading. It makes our analog sensor to display the reading easier and faster.
* C which will perform basic conversion operation analog to digital conversion has be done easily in C program.

## Research

* The goal of our project is to provide analog sensor to display sensor by ADC process in Atmega.

## Features

* An lm35 sensor device that performs temperature identification and give output analog signal. This Basic ADC conversion in C Can do ADC conversion to display the output of analog sensor to be digital value in screen.

## Benefits

* This technology allows students to convert the analog sensor in digital form of user efficient manner make the time reduce and minimizing error.

### **Defining Our System**

### **Explanation**

* An ADC as its name indicates is an electronic device which converts continuous time-varying analog signals into discrete-time digital signals so that they can easily be read by the digital devices.
* LM35 is a temperature measuring device having an analog output voltage proportional to the temperature. An ADC converts any analog signal into quantifiable data, which make it easier to process and store, as well as more accurate and reliable by minimizing error.

## SWOT ANALYSIS

## Who

\*Students \*Employee.

## What

* A LM35 interface with Atmega to convert analog (continuous, infinitely variable) signals to digital (discrete-time, discrete-amplitude) signal to display process and store, as well as more accurate.

## When

* An analog-to-digital converter (ADC) is used to convert an analog signal such as voltage to a digital form so that it can be read and processed by a microcontroller.

## Where

* Used in computer.
* Used in cell phones.
* Used in industry.

## How

* To creating set the of instructions for performing analog-to-digital converter by taking output of LM35 sensor and display in digital form in display.