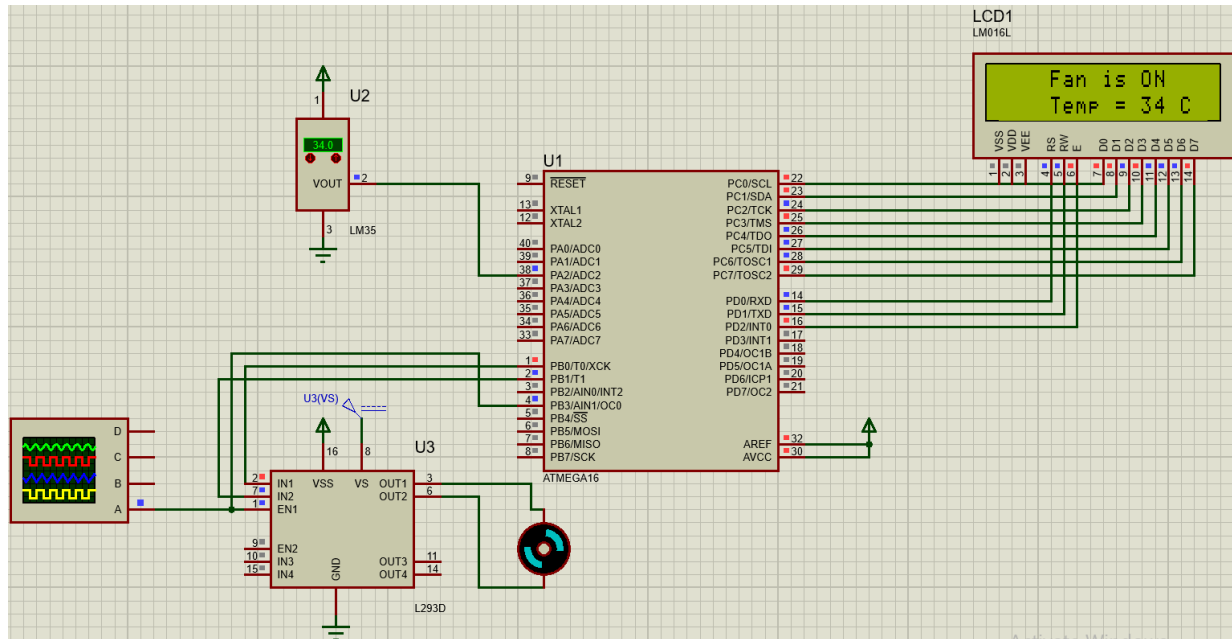


Fan Controller System



Description:

A fan controller system to control fan speed and state based on measured room temperature on **ATmega16** microcontroller.

The system uses **LM35** temperature sensor to measure room temperature using **ADC** driver.

The speed of the DC motor is set based on the measured room temperature using **PWM**.

The state of the motor and temperature read is displayed on **LM016L LCD**

Programming Language(s):

This project is written in C programming language.

Hardware Implementation:

This project is implemented on ATmega16 MC with a frequency of 1Mhz connected to the following components:

- LM35 Temperature Sensor
- DC Motor
- L293D Motor Driver
- LM016L LCD

Drivers:

- ADC
- GPIO
- PWM
- DC Motor
- LCD
- LM35 Sensor