Task # 7: Sensor Interfacing

MBSD @ DCSE, UET

Assigned by Dr. Bilal Habib

Deadline: Monday in class

In this project you are required to interface a temperature sensor to 89C51 using an ADC as shown below in figure 1.
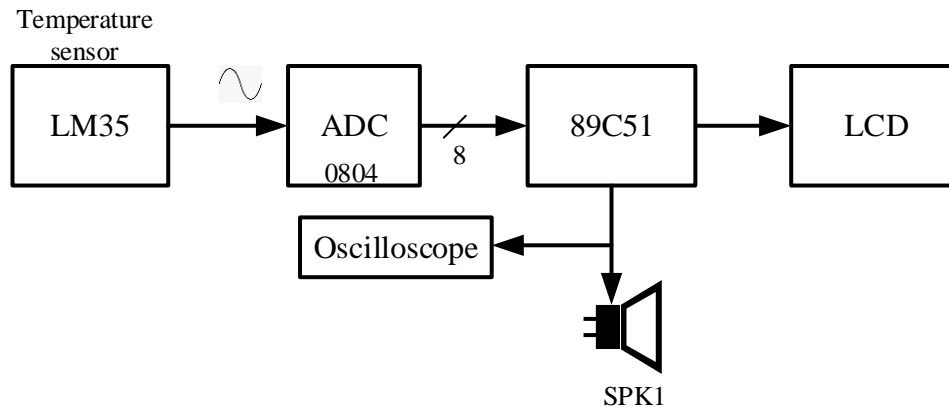

Figure 1: Sensor interfaced to Microcontroller

If temperature > 35C or below 10C then generate a 100Hz beep using speaker/sound card in Proteus. It has a 25% duty cycle and verify it using an oscilloscope.

Sampling rate of ADC = 1K samples/sec.