Task # 7: Sensor Interfacing

MBSD @ DCSE, UET

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Deadline: June 20, 2022 (8am)

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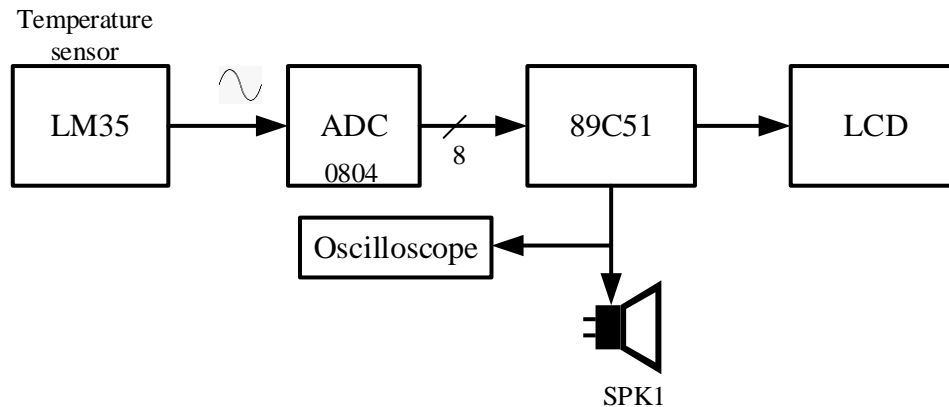

Figure 1: Sensor interfaced to Microcontroller

If temperature > 25C or below 10C then generate a 200Hz beep using speaker/sound card in Proteus. It has a 75% duty cycle and verify it using an oscilloscope.

Sampling rate of ADC = 2K samples/sec.