# *Measurement of temperature (LM35 with Arduino):*

## LM35: A temperature sensor give the readings in centigrade. It is an analog, linear temperature sensor whose output voltage varies linearly with change in temperature. It can measure temperature from**-55 degree celsius to +150 degree celsius*.*** The voltage output of the LM35 increases 10mV per degree Celsius rise in temperature. LM35 can be operated from a 5V supply and the stand by current is less than 60uA.

## LM35 is an analog temperature sensor. This means the output of LM35 is an analog signal. Microcontrollers’ do not accept analog signals as their input directly. We need to convert this analog output signal to digital before we can feed it to a microcontroller’s input. For this purpose, we can use an ADC (Analog to Digital Converter). We then feed the output of ADC (converted digital value) to input.