Experiment No: 07

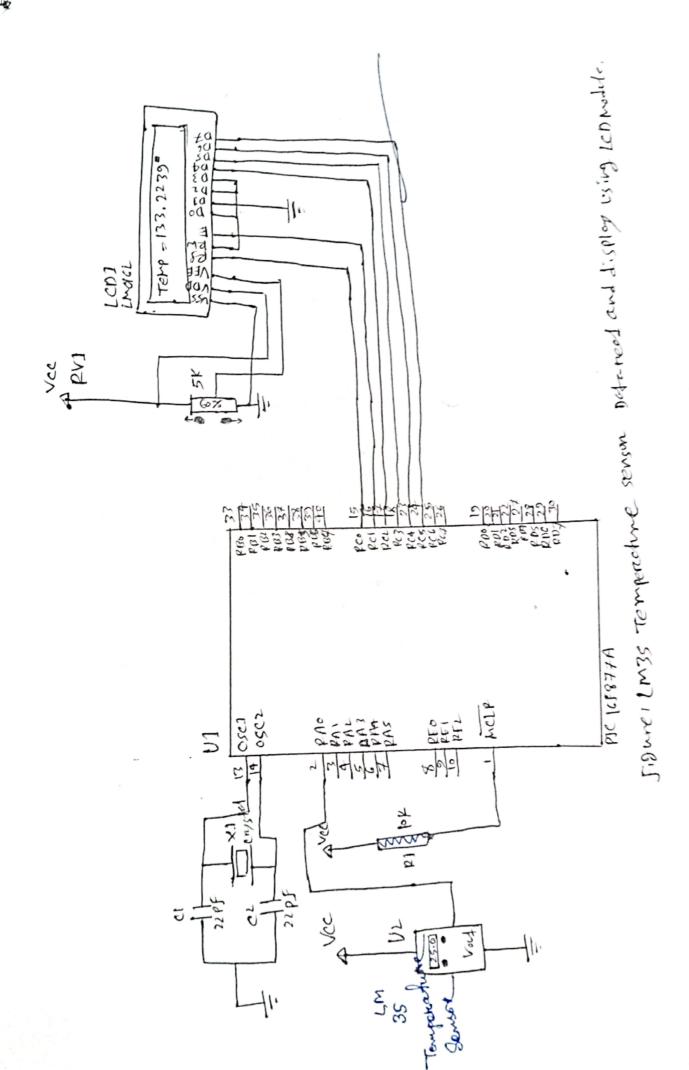
Name of the experiment LM35 Temperature senson.
Dota pead and Display using LCD module.
Objective(s).

1. To know who I LM35 temperature senson

2 To Know about the tick Ptc Microcontroller

having an andog output voltage Arobandisonal to
the temperature It Arovides output in centional
(celsius). It does not require any extensed calibratio
cincuitry. The sensetivity of LM35 is lower/degree
celsius. As temperature increases, output voltage
also increases 250mm means 25°2. It is a 3-terminal
senson used to measure sunnording temperature
tranding from -55°c to 150°C. LM35 gives temperature
output which is more precise than theremiston
output.

Resiston, LM35 temperature senson



```
source code 1
 Shit LCD_PS of RBO_bit;
 shit LCO- En of PBI-bit;
 shit LCP-DA at PBL-bit.
 Shit LCO_DS at PB3_bit;
 Shit LCROG of RB4-bit;
 Shit LCD: DF of RBS_ bit;
 Shit LCD-PS_Direction of TRISBO-bit;
Shit LCD-En-Direction at TRJSB1-bit;
 Shit LCD-D4_ Direction of TRJSD2-bit;
 Shit LCD-D5- Direction at TRISB3-bit;
 Shit LCO_D6_Dinection at TPJSB4_bit;
 Shit LCD-D7-Direction of TRISB5-bit"
chan display [16] = " ")
voil main ()
   unsigned int result;
   floor vott, temp.
   trisb = 0×00;
   trisa 20X-95;
    adcon1=0×80;
    led_init();
led_cmd(-led-clean);
    led-emd (: Leo-cursor_OFF);
       Wile(1)
            result = odc-read(0);
            volt=resurt * 4.88;
            temp=volt/10:
             led-out (1.3, "+Emp=").
             floattostr (temp, display);
```

1cd_out_cr(display); 1cd_chr(1,16,223); 1cd_out_cr("c");

3