Name of the experiment! Write a program to count Experiment no: 02 0-to 9 in 7 segment display using pac microcontroller

(i) Learning no how to design a 7 segment display wing pic microcontroller.

(ii) understanding 7 segment displays principle.

Theory seven sedment disploys are the output display device that provides a may to display information in the form of images on text on decimal numbers which is an alternative to the more complex dot motivadisplays. It is midely used in digital eat clocks,. basic calculations, electronic meters and other electronic devices that display numerical information. According to the type of application, there are two types of configuration of seven segment lisplay. (1) common anote display Cittommon cothode display

(i) In common cathode seven segment displays all the cothede connections of LED segments are connected together to logico on ground. he eye logic 1 through a current limiting resiston to forward big the individual anode terminals . a to g (ii) Wheney all the anode connections of the LED

segments are connected together to logic 1 in a common anote seven sedgment display, we use logic of through

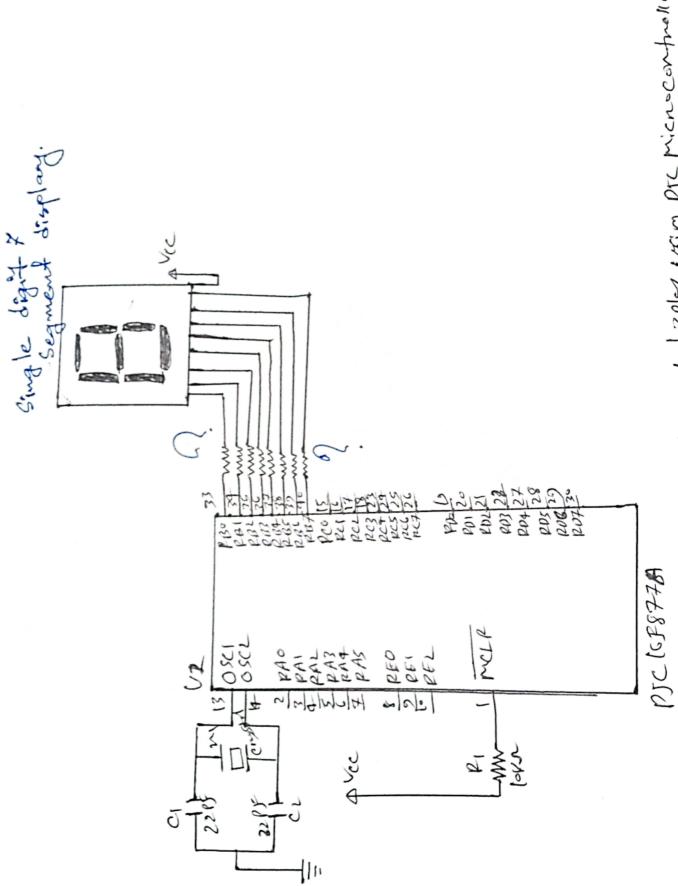
a current limiting resiston to the controle of a particular segment a to g.

Common mode segment displays are more popular.

Than cathode seven sogment displays because logic cinemity consists more current than they can source and it is the same as connecting LED's in neverse seven sogment displays are used my.

Didital clocks, clock reading, calculators, speedometer.

Apparety required 1 PIC16F877A, capaciton, resiston, convert, common and anode of segment.



Figs to count ate 9 in 7 segment 13017 USINGE Michellen.

```
connec code?

Void main()

E int i, 0;

Chan ann []; {0x40,0x79,0x24,0x19,0x17,0x02,

0x78, 0x00, 0x10}

TPJSB = 0x00;

Pondb = 0x35;

White(1)

E pond b, ann []

ideloy. ms(500)

1++;

if (i=10)

i = 0
```