

Experiment no 1

Name of the experiment: Blinking LED using PIC microcontroller.

Objective(s):

- (i) ~~designing~~ ^{To design} a LED blinking circuit
- (ii) ~~understanding~~ ^{To understand} the circuit diagram of PIC microcontroller.

Theory: LED's are small powerful light that are used in many different application. It is as simple as light turning on and off. LED is an electronic device, which emits light when the current passes through its terminals.

An LED is a two-terminal device. The two terminals are called as cathode and Anode.

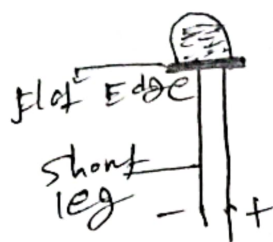
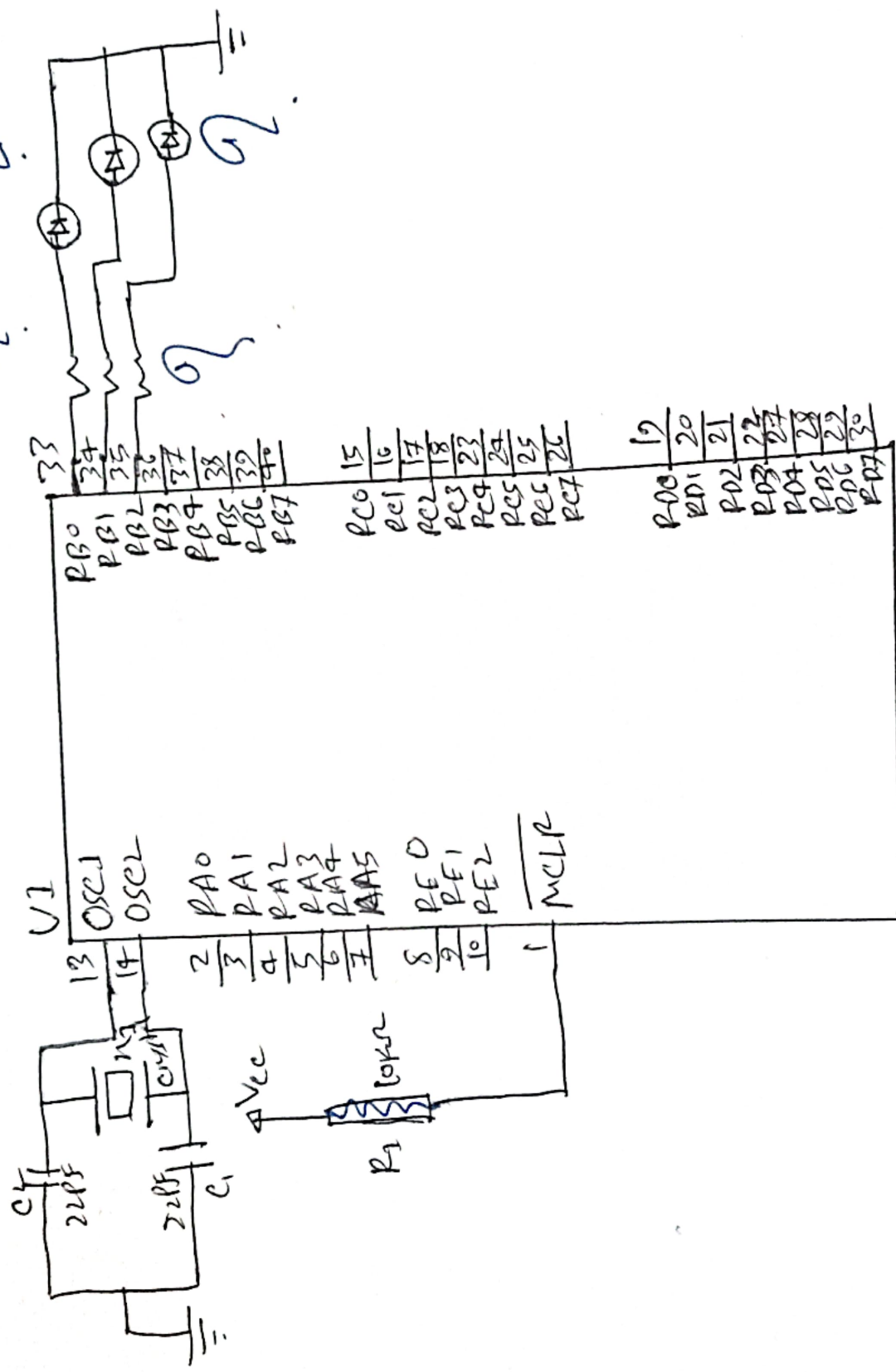


Fig: a structure of LED

Apparatus required: LED, PIC16F877A, power supply, resistor, crystal, oscillator, capacitor.



PJC16F877A

blinking circuit ~~of~~ using PSC microcontroller.

fig 1 for ~~LED Blinking~~ LED using PSC microcontroller.

source code:

```
void main()
{
    TRISB = 0X00; // Set portb as output.
    TRISB
    PORTB = 0X00; // Initialize portb as
                   off. state.
    while(1);
    {
        portb.io = 0XFF;
        delay.ms(400);
        portb.io = 0X00;
        portb.d1 = 0;
        portb.d2 = 0;
        delay.ms(600);
    }
}
```