LED BLINK

Learning Objectives Of LED Blink

* Use Coding Language
* Write commands for LED lights
* Build Circuits
* Proteus software
* Keil microvision software

Inputs

* 8 Ports
* Port P0-P7

Outputs

* Pin needs to be configured as 0 for output.

Logic

#include <reg51.h>

sbit sw1 = P2^1;

sbit sw2 = P2^2;

void delay(unsigned int);

void main(void)

{

sw1 = 0;

sw2= 0;

while(1)

{

if (sw1==0 && sw2==0)

{

P1 =0x00;

}

else if(sw1==1 && sw2==0)

{

P1=0x0A; //blink green colour

}

else if(sw1==0 && sw2==1)

{

P1=0xA0; //blink green colour

}

else if(sw1==1 && sw2==1)

{

P1=0x0A;

delay(500);

P1=0xA0;

delay(500);

}

}

}

void delay(unsigned int t)

{

unsigned int i,j;

for(i=0;i<t;i++)

for(j=0;j<1275;j++);

}

Result

Blinking an LED using a microcontroller is a fundamental project in embedded systems. Let's take an example using an Arduino board, a popular platform for prototyping with microcontrollers. We'll use the Arduino IDE and write a simple sketch to blink an LED connected to pin 13.