

EXPERIMENT NO:**ROLL No:**

AIM: Develop C program for LED Blinking.

Instruments Required:

Sr. No	Instruments Name	Value	Qty
1	Desktop PC with keill nstalled	-	1 per 2 students
2	8051 trainer kit	-	1
3	Proteus 8 pro.		1 per 2 student

Theory:

The switch is an input device. When interfaced with microcontroller, it can be used to control o ther peripherals connected to the microcontroller. It basically “makes” the electrical circuit by establishing the flow of current. Or “breaks” it by interrupting the flow of current.

A switch, when not in use, has no definite value associated with it. Correspondingly, the pin of the uC that it is attached to has no definitive value either. It is said to be floating between 0 or 1. Hence a resistor is connected between the switch and VCC or GND. To assign a specific value to it once and for all.

Code:

```
#include<reg51.h>
sbit switch1 = P1^5;
sbit led1 = P1^1;
void main(void)
{
    led1 = 0; // make led an output
    switch1 = 1; //make switch as input
    while(1)
    {
        if(switch1 == 0)
        {
            led1 = 1;

        }
        else
        {
            led1=0;
        }
    }
}
```

Result:



