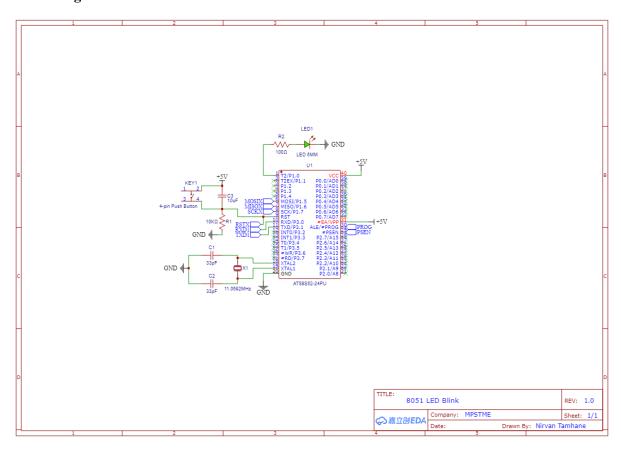
Interfacing an LED with 8051 microcontroller using Keil µvision 5

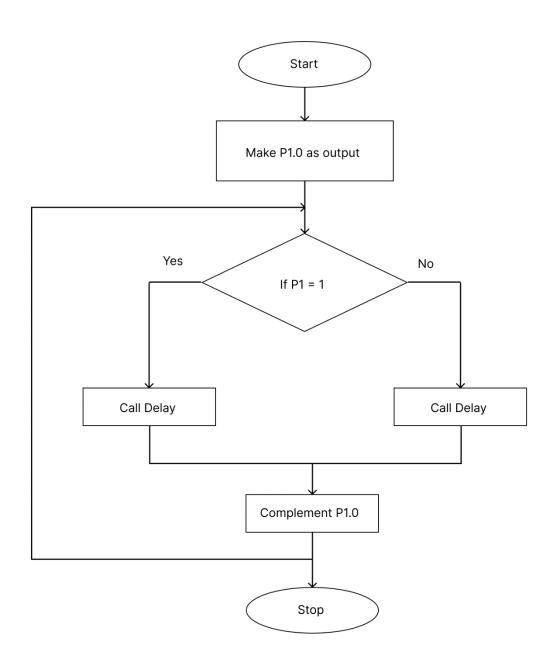
Name: Nirvan Tamhane

Aim: Write a program to toggle a LED on port 1, pin P1.0 with a delay using 8051 microcontroller and Keil μ vision 5 software.

Interfacing/Schematic:



Program flowchart:



Embedded C program:

```
// special function register declarations
#include<reg52.h>
               // for the intended 8051 derivative
sbit LED = P1^0;
                      // Defining LED pin
                      // Function prototype declaration
void Delay(void);
void main (void)
{
  while(1)
                  // infinite loop
  {
    LED = 0;
                  // LED ON
    Delay();
    LED = 1;
                  // LED OFF
    Delay();
 }
}
void Delay(void)
{
  int j;
  int i;
  for(i=0;i<20;i++)
  {
    for(j=0;j<10000;j++)
    {
    }
  }
}
```

delay in the program with conditional instructions.	

Conclusion - We learnt the interfacing of LED connection to Port of 8051.Learned how to create a