**Blinking LED using 8051**

Learning Objective: -

* Blinking series of LEDs using 8051
* Using switches to toggle the state of LEDs

Input and Output: -

* Inputs are Switches
* Outputs are LEDs

Logic: -

* We used Embedded C to program.
* Including Register 51 header file
* Assigning Ports for switches as Input Ports
* Defining the Switches as LOW state
* Defining condition as
  + If S1 & S2 are LOW
    - All LEDs are OFF or LOW state
  + If S1 is LOW and S2 is HIGH
    - Bottom Four LEDs will blink with some delay
  + If S1 is HIGH and S2 is LOW
    - Top Four LEDs will blink with some delay
  + If S1 & S2 are HIGH
    - All 8 LEDs will blink with some Delay
* Defining Function for Delay

Common Mistakes and Solution: -

* Not using sbit function for defining port
* Undefined particular pin for that port if we are using only that pin

Results: -

