

8051(micro-controller) (Trainer: Dr. Jeevan K M)

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Learning objective:

• LED blinking using micro-controller

Inputs: Switches□ Outputs: LEDs

Logic:

- LEDs are connected to Port 1 (P1) of the 8051 microcontroller.
- The code involves passing hexadecimal values to Port 1, which determines the state of each LED.
- A delay function is used to create the blinking effect by toggling the LEDs on and off.

Common Mistakes:

- **Project Creation in Keil Software:** Errors in creating a project or missing the step of creating a target before running the code.
- **Syntax and Indentation Errors:** Mistakes in code syntax and improper indentation can lead to compilation errors.
- **Port Confusion:** Errors in connecting the LEDs to the correct ports on the microcontroller.

Result:-



