

## **Timers**

- Timers in 8051 – specifications and applications
- Calculation of timer values for the given delay
- Writing an ISR for timer overflow interrupt
- Configuring counter to count external events
- SFR's descriptions
- Using Performance analyzer feature of Keil to view delay caused by using hardware timers
- Using debugger facility to view overflow interrupt generation and ISR execution
- Using IO Port 3.4 to generate external events for counting and display the count on IO ports
- Hands On:
  - Toggling port pins using hardware timer delay
  - Using timer to generate interrupts
  - Using timer in counter mode to count the external events