

# Video-23

## Interfacing TMP36 with ATTINY85

This project uses a **TMP36 temperature sensor** with an **ATTINY85** microcontroller to monitor temperature and visually indicate the range using an **RGB LED**. The temperature data is read from **analog pin A2**, converted to Celsius, and interpreted to display color codes based on defined thresholds:

- **White blinking** for cold ( $\leq 9^{\circ}\text{C}$ )
- **Red blinking** for hot ( $\geq 35^{\circ}\text{C}$ )
- Solid colors (white, cyan, green, yellow, red) for specific temperature ranges

The **RGB LED** is connected to pins **0, 1, and 2**, and the color output helps users quickly understand ambient temperature conditions. This is a compact and low-power solution ideal for wearable or embedded temperature monitoring systems.