Project Components (Short Notes)

1. **ATtiny85 / Arduino** – A microcontroller used to control all operations.
2. **TMP36 Temperature Sensor** – Senses ambient temperature and outputs analog voltage.
3. **LEDs (Red, Green, Blue, White, etc.)** – Visually indicate temperature range by blinking.
4. **220 Ohm Resistors** – Used to limit current to LEDs.
5. **Coin Cell Battery (3V)** – Power supply for the project.
6. **DPST Switch** – Used to turn the circuit ON/OFF.
7. **Wires & Breadboard** – For making all connections.

💡 **Short Description of the Project**

This project demonstrates the **interfacing of a TMP36 temperature sensor with an ATtiny85 (or Arduino)**. Depending on the **temperature readings**, different **LEDs blink** to indicate the current temperature range.

The analog voltage output from TMP36 is read by the microcontroller and converted into temperature using a formula. Based on the value, a specific LED color is turned ON or blinked. For example:

- Below 10°C: Blue LED
- 10°C–15°C: Green LED
- 15°C–20°C: Yellow LED
- Above 20°C: White or Red LED