Temperature Monitoring System using Arduino & LM35

This project **measures temperature** using an **LM35 analog temperature sensor** and **displays the readings** on the **Serial Monitor**.

◆ Working Principle:

1. The **sensor outputs an analog voltage** proportional to temperature.
2. The Arduino **reads this voltage** and **converts it to temperature** in **Celsius and Fahrenheit**.
3. The values are **displayed on the Serial Monitor** every **3 seconds**.

🔧 Use Case:

- **Weather monitoring** ☁
- **Room temperature detection** 🏠
- **Industrial temperature sensing** ☼