Project Overview: Analog Sensor Data Reading

This project **reads analog data from a sensor** (e.g., temperature sensor, light sensor, potentiometer) using an **Arduino** and **prints the values** to the **Serial Monitor**.

Working Principle:

1. The **sensor** is connected to **A0 (analog pin)** of the Arduino.
2. The **Arduino reads the analog signal** using `analogRead()`, which returns a value between **0 and 1023**.
3. The **sensor value is displayed** on the **Serial Monitor** via `Serial.println()`.

Use Case:

- Used for **monitoring sensor readings** in real-time for **IoT projects**, **data logging**, and **automation systems**.