Here is the **full Arduino code** for your **AGRI KIT project**, which monitors:

* 🌡️ Temperature & Humidity (via DHT11)
* 💧 Soil Moisture
* ☀️ Light Intensity (via LDR)
* 📟 LCD Display (I2C)
* 🛠️ With basic irrigation suggestion logic

**✅ Components Required:**

* DHT11 sensor (temperature & humidity)
* Soil moisture sensor
* LDR (light sensor)
* I2C LCD 16x2
* Arduino UNO
* Resistors (for LDR)
* Power supply

**🔌 Pin Connections:**

| **Component** | **Arduino Pin** |
| --- | --- |
| DHT11 | D2 |
| Soil Moisture | A0 |
| LDR | A1 |
| LCD (I2C) | SDA → A4, SCL → A5 |

**📦 Required Libraries:**

Install these from Library Manager:

* DHT sensor library by Adafruit
* Adafruit Unified Sensor
* LiquidCrystal\_I2C