**Components & Connections:**

* **Arduino Uno: Central controller**
* **DHT11 Sensor: For measuring temperature and humidity**
* **Ultrasonic Sensor (HC-SR04): For distance measurement and motion detection**
* **Smoke Sensor (MQ-2): For detecting smoke levels**
* **16x2 I2C LCD: For displaying real-time data**
* **GSM 900A Module: For sending SMS alerts to mobile phones**
* **Power Supply: External power for Arduino and GSM module**

1. **DHT11 Sensor** to **Arduino**:
   * **VCC** → 5V (Arduino)
   * **GND** → GND (Arduino)
   * **DATA** → Pin **2** (Arduino)
2. **Ultrasonic Sensor (HC-SR04)** to **Arduino**:
   * **VCC** → 5V (Arduino)
   * **GND** → GND (Arduino)
   * **TRIG** → Pin **9** (Arduino)
   * **ECHO** → Pin **8** (Arduino)
3. **Smoke Sensor (MQ-2)** to **Arduino**:
   * **VCC** → 5V (Arduino)
   * **GND** → GND (Arduino)
   * **Analog Output** → Analog Pin **A0** (Arduino)
4. **16x2 I2C LCD** to **Arduino**:
   * **SDA** → Pin **A4** (Arduino)
   * **SCL** → Pin **A5** (Arduino)
   * **VCC** → 5V (Arduino)
   * **GND** → GND (Arduino)
5. **GSM 900A Module** to **Arduino**:
   * **VCC** → **External 9V or 12V power supply** (not directly from Arduino)
   * **GND** → GND (Arduino)
   * **RX (Receive)** → Pin **6** (Arduino TX)
   * **TX (Transmit)** → Pin **7** (Arduino RX)