

AES MINI PROJECT

Aim: Using Arduino UNO, display temperature and humidity on LCD display which is being sensed by DHT11.

Components:

1. Arduino UNO(1x)
2. LCD I2C
3. DHT22 Sensor(1x)
4. Jump Wires(Male to Male)

Connections:

LCD to Arduino

LCD	Arduino
GND	GND
VCC	5V
SDA	A4
SCL	A5

DHT22 Sensor to Arduino

DHT22 Sensor	Arduino
VCC	5V
SDA	Pin 7
GND	GND

Code:

```
#include <dht.h>
#include <LiquidCrystal_I2C.h>
dht DHT;
LiquidCrystal_I2C lcd(0x27, 16, 2);

void setup() {
    // put your setup code here, to run once:
    lcd.init();
    lcd.backlight();
}

void loop() {
    // put your main code here, to run repeatedly:
    int chk = DHT.read(7);
    lcd.setCursor(0, 0);
    lcd.print("Temp.");
    lcd.setCursor(10, 0);
    lcd.print(DHT.temperature);
    lcd.setCursor(0, 1);
    lcd.print("Humidity:");
    lcd.setCursor(10, 1);
    lcd.print(DHT.humidity);
}
```

Output:

