# Advanced Embedded Systems

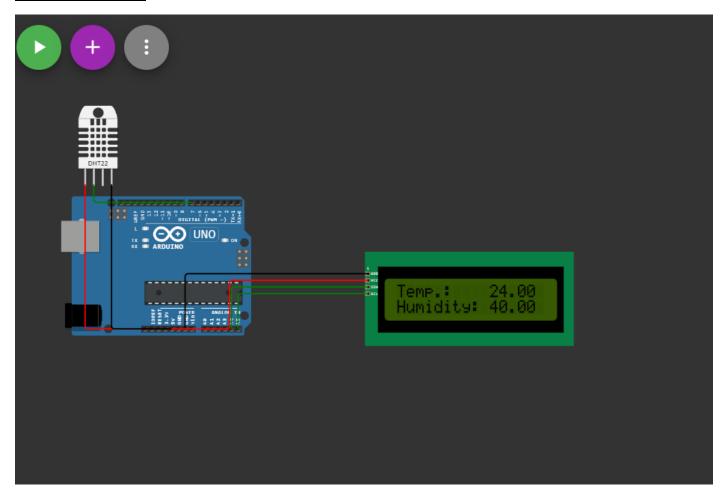
# Mini Project

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

#### **Components:**

- 1. Arduino UNO (1x).
- 2. USB 2.0 Cable Type A/B (1x).
- 3. LCD I2C (16 rows, 2 columns) (1x).
- 4. Jump Wires (Male / Female) (12x)
- 5. DHT11 Sensor

#### **Circuit Diagram:-**



## **Connection:-**

Groups	Pins	
	From Arduino	TO DHT22
Arduino to DHT22	7	SDA
	5V	VCC
	GND	GND

Pins	
From Arduino	TO LCD
GND	GND
5V	VCC
A4	SDA
A5	SCL
	From Arduino GND 5V A4

## **Source Code:-**

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);
}
```