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:

```cpp
#include <dht.h>
#include <LiquidCrystal_I2C.h>
#define DHT22_PIN 7
dht DHT;
LiquidCrystal_I2C lcd(0x27,16,2);
int cursorcolumn=0;

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(DHT22_PIN);

  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);
  delay(500);
```

}

Output: