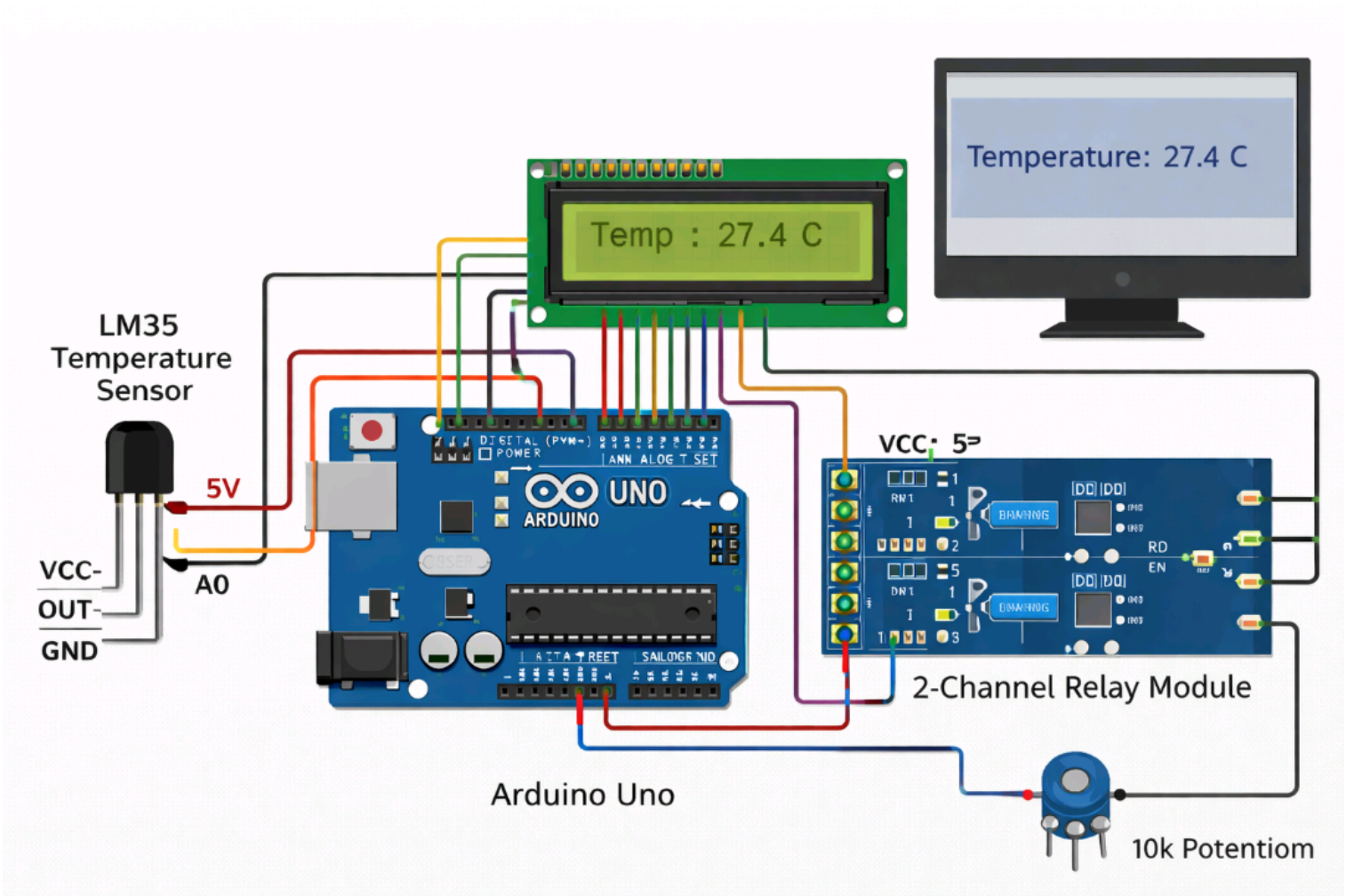
```
#include <LiquidCrystal.h>

// LCD pin connection (RS, E, D4, D5, D6,
D7)
LiquidCrystal lcd(12, 11, 5, 4, 3, 2);

int tempPin = A0;   // LM35 output
connected to A0

void setup()
{
  lcd.begin(16, 2);
  Serial.begin(9600);

  lcd.print("Temp Monitor");
  delay(2000);
  lcd.clear();
}

void loop()
{
  int sensorValue = analogRead(tempPin);

  // Convert ADC value to temperature
  float voltage = sensorValue * (5.0 /
1023.0);
  float temperature = voltage * 100.0; //
LM35 = 10mV per °C

  // Display on LCD
  lcd.setCursor(0, 0);
  lcd.print("Temperature:");
  lcd.setCursor(0, 1);
  lcd.print(temperature);
  lcd.print(" C   ");

  // Display on Serial Monitor
  Serial.print("Temperature: ");
  Serial.print(temperature);
  Serial.println(" C");

  delay(1000);
}
```

```
Temperature:
30.45 C
```

💻 Serial Monitor Output Example

```
Temperature: 29.87 C
Temperature: 30.02 C
Temperature: 30.41 C
Temperature: 30.63 C
```


Temperature: 27.4 C
Temp : 27.4 C
LM35
Temperature
Sensor
5V
VCC-
OUT-
GND
A0
UNO
ARDUINO
VCC: 5
RD
EN
2-Channel Relay Module
Arduino Uno
10k Potentiom