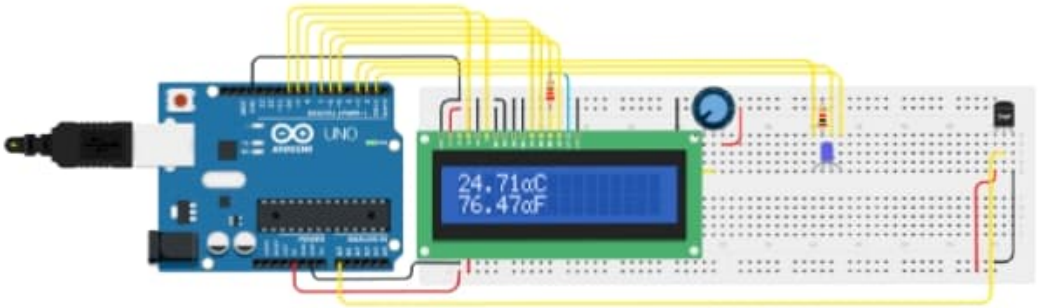
Simulator time: 00:00:29

Code | Stop Simulation | Send To

1 (Arduino Uno R3)




```
  float temperatureF = (temperatureC * 9.0 / 5.0) + 32.0;

  if (temperatureC >= 35.00){
    digitalWrite(ledRedPin, HIGH);
    digitalWrite(ledGreenPin, LOW);
    digitalWrite(ledBluePin, LOW);
  }else if (temperatureC >= 25.00){
    digitalWrite(ledRedPin, LOW);
    digitalWrite(ledGreenPin, LOW);
    digitalWrite(ledBluePin, HIGH);
  }
  else if (temperatureC <= 25.00){
    digitalWrite(ledGreenPin, HIGH);
    digitalWrite(ledBluePin, LOW);
    digitalWrite(ledRedPin, LOW);
  }


  lcd.setCursor(0, 0);
  lcd.print(temperatureC);
  lcd.print((char)223);
  lcd.print("C");
  lcd.setCursor(0, 1);
  lcd.print(temperatureF);
  lcd.print((char)223);
  lcd.print("F");
}
```

Serial Monitor

```
#include <LiquidCrystal.h>

Int sensorPin = 0;
Int ledGreenPin = 2;
Int ledBluePin = 1;
Int ledRedPin = 3;

Const int rs = 10, en = 9, d4 = 8, d5 = 7, d6 = 6, d7 = 5;
LiquidCrystal lcd(rs, en, d4, d5, d6, d7);

Void setup() {
  Lcd.begin(16, 2);
  pinMode(ledGreenPin, OUTPUT);
  pinMode(ledBluePin, OUTPUT);
  pinMode(ledRedPin, OUTPUT);
}

Void loop() {
  Int reading = analogRead(sensorPin);
  Float voltage = reading * 5.0;
  Voltage /= 1024.0;
  Float temperatureC = (voltage – 0.5) * 100 ;
  Float temperatureF = (temperatureC * 9.0 / 5.0) + 32.0;

  If (temperatureC >= 35.00){
    digitalWrite(ledRedPin, HIGH);
    digitalWrite(ledGreenPin, LOW);
    digitalWrite(ledBluePin, LOW);
  }else if (temperatureC >= 25.00){
```

```
  digitalWrite(ledRedPin, LOW);
  digitalWrite(ledGreenPin, LOW);
  digitalWrite(ledBluePin, HIGH);
 }
 Else if (temperatureC <= 25.00){
  digitalWrite(ledGreenPin, HIGH);
  digitalWrite(ledBluePin, LOW);
  digitalWrite(ledRedPin, LOW);
 }


 Lcd.setCursor(0, 0);
 Lcd.print(temperatureC);
 Lcd.print((char)223);
 Lcd.print("C");
 Lcd.setCursor(0, 1);
 Lcd.print(temperatureF);
 Lcd.print((char)223);
 Lcd.print("F");
}
```