#define LM35\_PIN A0

#define LED\_PIN 13

void setup()

{

pinMode(LED\_PIN, OUTPUT); // Set LED pin as output

}

void loop()

{

int sensorValue = analogRead(LM35\_PIN); // Read analog value from LM35 sensor

float temperature = sensorValue \* (5.0 / 1023.0 \* 100); // Convert analog value to temperature in Celsius

if (temperature < 30) {

blinkLED(250); // Blink LED every 250 milliseconds if temperature is below 30°C

}

else

{

blinkLED(500); // Blink LED every 500 milliseconds if temperature is 30°C or above

}

}

void blinkLED(int interval)

{

static unsigned long previousMillis = 0; // Variable to store the last time LED was blinked

unsigned long currentMillis = millis(); // Get the current time

if (currentMillis - previousMillis >= interval)

{

digitalWrite(LED\_PIN, !digitalRead(LED\_PIN)); // Toggle LED state

previousMillis = currentMillis; // Remember the time for the next blink

}

}