```
#include<Arduino.h>
const int lm35Pin = A0; // LM35 sensor connected to analog pin A0
const int ledPin = 13; // Onboard LED connected to digital pin 13
unsigned long previousMillis = 0; // Variable to store the last time LED was updated
const long interval1 = 250; // Interval for LED blink when temp < 30°C
const long interval2 = 500;
                             // Interval for LED blink when temp >= 30°C
int ledState = LOW; // Initialize the LED state
int temperature = 0; // Variable to store temperature
void setup() {
 pinMode(ledPin, OUTPUT); // Set the LED pin as output
 Serial.begin(9600); // Initialize serial communication
}
void loop() {
 temperature = readTemperature(); // Read temperature from LM35 sensor
 if (temperature < 30) {
  blinkLED(interval1); // Blink LED every 250ms
 } else {
  blinkLED(interval2); // Blink LED every 500ms
}
}
// Function to read temperature from LM35 sensor
int readTemperature() {
 int sensorValue = analogRead(Im35Pin); // Read sensor value
 float voltage = sensorValue * (5000 / 1024.0); // Convert sensor value to voltage
 int tempC = voltage / 10; // Convert voltage to temperature in Celsius
```

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return tempC; // Return temperature
}

// Function to blink LED with specified interval

void blinkLED(long interval) {

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

if (currentMillis - previousMillis >= interval) {

previousMillis = currentMillis; // Save the last time LED was updated

ledState = !ledState; // Toggle LED state

digitalWrite(ledPin, ledState); // Update LED state
}

}
```