MAIN CODE FOR ECG AND TEMPERATURE SENSOR

```
#include <Wire.h>

#include <Adafruit_MLX90614.h>

#include <WiFi.h>


#define ECG_PIN A0   // Analog pin for ECG sensor


// WiFi credentials

const char* ssid = "YourWiFiSSID";

const char* password = "YourWiFiPassword";


// ECG variables

unsigned long ecgReading;

unsigned long lastTime = 0;

const int ecgInterval = 20; // Interval between ECG readings in milliseconds


// Initialize the temperature sensor

Adafruit_MLX90614 mlx = Adafruit_MLX90614();


void setup() {

  Serial.begin(9600);


  // Connect to WiFi

  WiFi.begin(ssid, password);

  while (WiFi.status() != WL_CONNECTED) {

    delay(1000);

    Serial.println("Connecting to WiFi...");
```

```cpp
  }
  Serial.println("Connected to WiFi");

  // Initialize temperature sensor
  mlx.begin();

  // Set ECG pin as input
  pinMode(ECG_PIN, INPUT);
}
void loop() {
  // Read temperature
  float objTempC = mlx.readObjectTempC();
  Serial.print("Object Temperature: ");
  Serial.print(objTempC);
  Serial.println(" °C");

  // Read ECG
  unsigned long currentTime = millis();
  if (currentTime - lastTime >= ecgInterval) {
    ecgReading = analogRead(ECG_PIN);
    Serial.print("ECG Reading: ");
    Serial.println(ecgReading);
    lastTime = currentTime;
  }
  // Add your code for sending data to a server or performing any other actions here

  delay(1000); // Delay between readings
}
```