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UniMAP

GSM TEMPERATURE ALERT SYSTEM
TO DETECT HUMAN BODY TEMPERATURE

Summary of Invention

A temperature set point is the level at which the body attempts to maintain its temperature. When the set point is raised, the result is a fever. Most fevers are caused by infectious disease and can be lowered, if desired, with antipyretic medications. An early morning temperature higher than 37.2 °C or a late afternoon temperature higher than 37.7 °C is normally considered a fever, assuming that the temperature is elevated due to a change in the hypothalamus's set point. This is a dangerous temperature levels on children because they are more likely to hit a fever. The normal daily temperature variation is typically 0.5 °C, but can be greater among people recovering from a fever. The body temperature of child is importance to monitor and the three goals of home care for a child with fever are to control the temperature, prevent dehydration, and monitor for serious or life-threatening illness. To overcome this issue, a temperature monitoring system for child fever body temperature and child in the car is importance to monitor. That device will tell the user about the over limit temperature that can be dangerous to child.
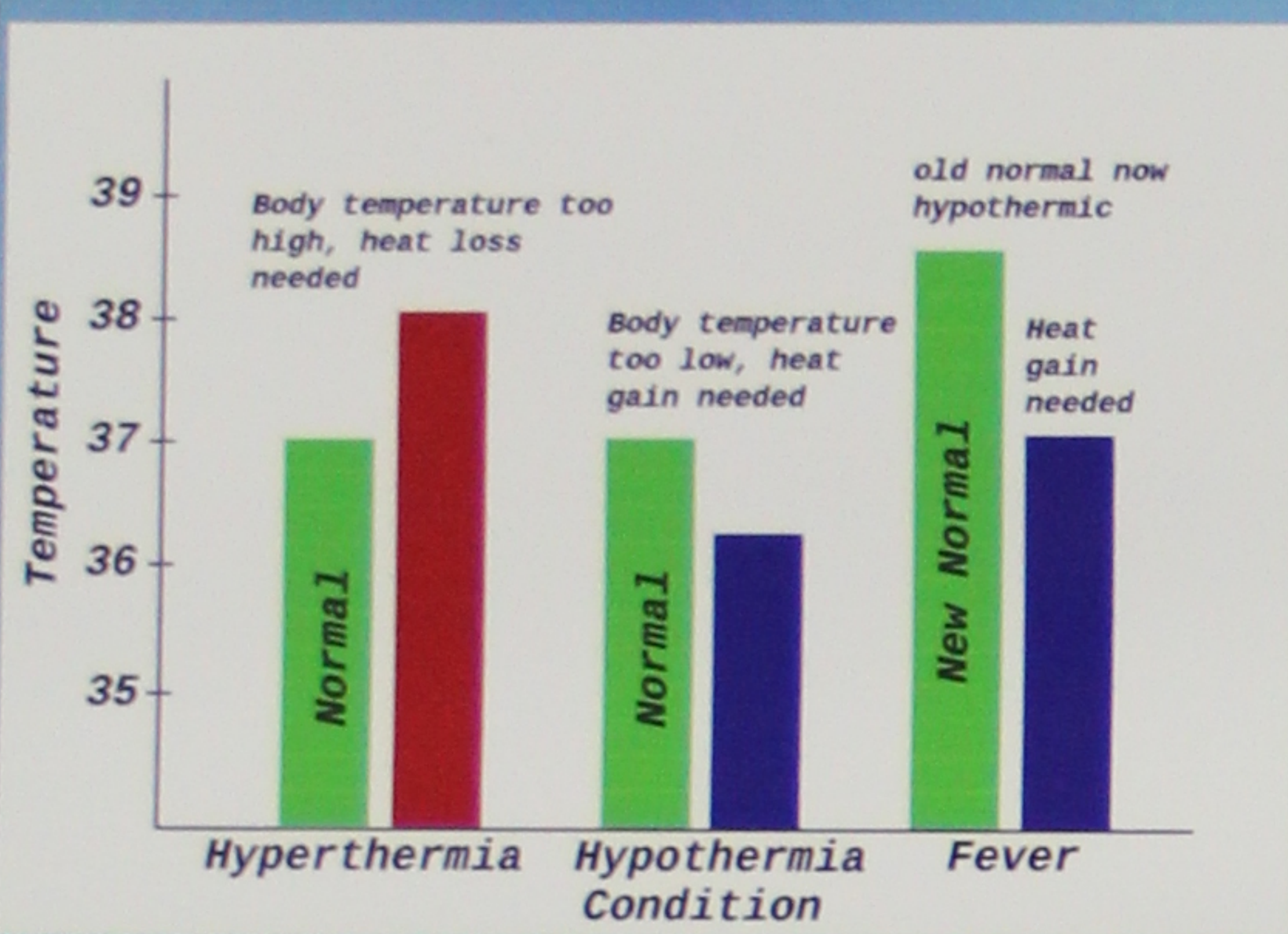
Problem Statement

- Health aspect - Risks of the higher body temperature when fever.
- Safety aspect – To prevent any accidents such as faintness, extreme tiredness, and headache happen especially involving higher body temperature of children.
- Heat effect – If the temperature is higher than usual which is 39oC and above, it will causes the hazard to human especially to children.
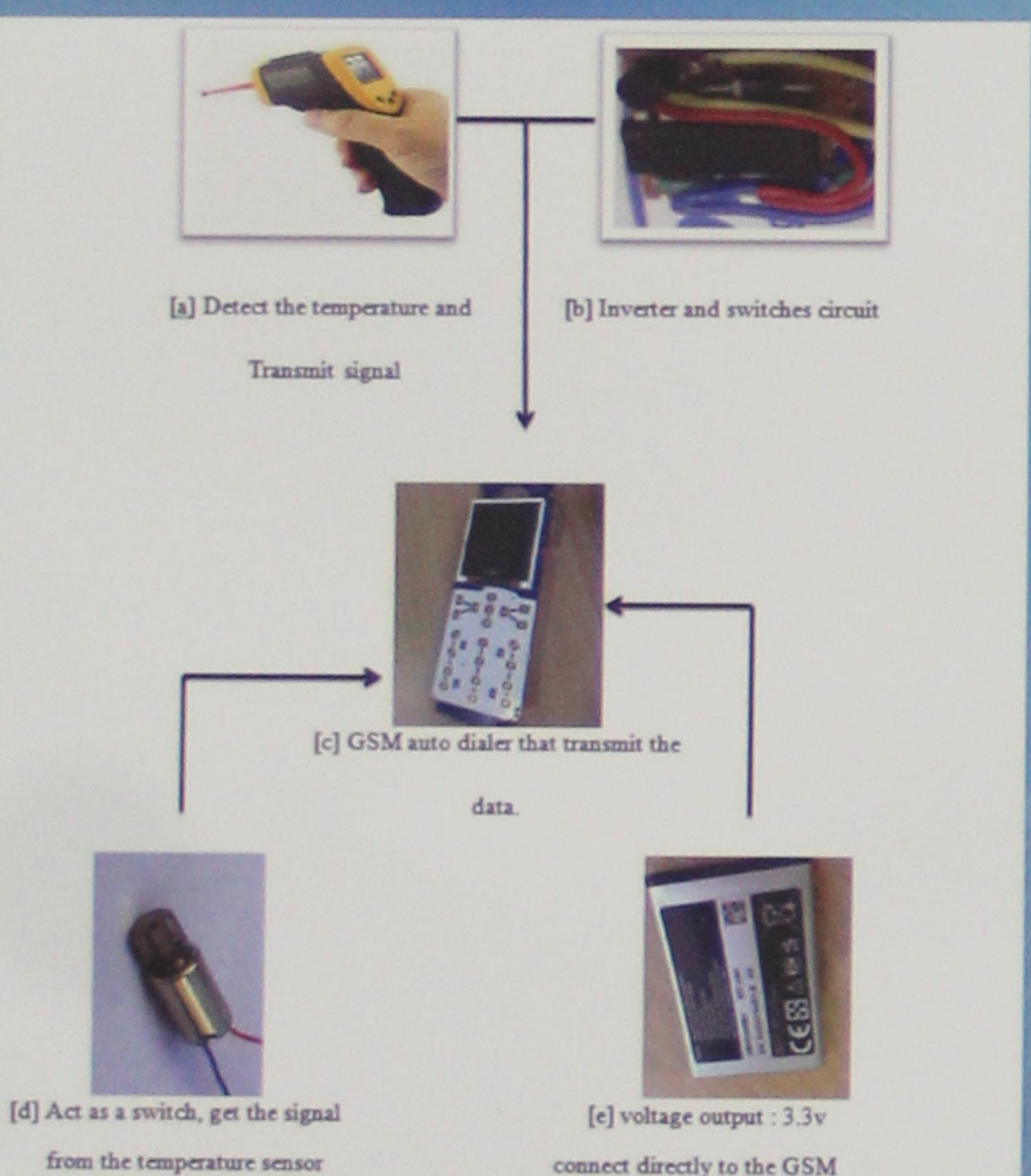
Objective

- To monitor the car condition in term of maximum temperature to prevent heat effect to human.
- Using GSM signal to send the alert to the mobile phone.
- To use the module of temperature monitoring system and to detect temperature by sensor.
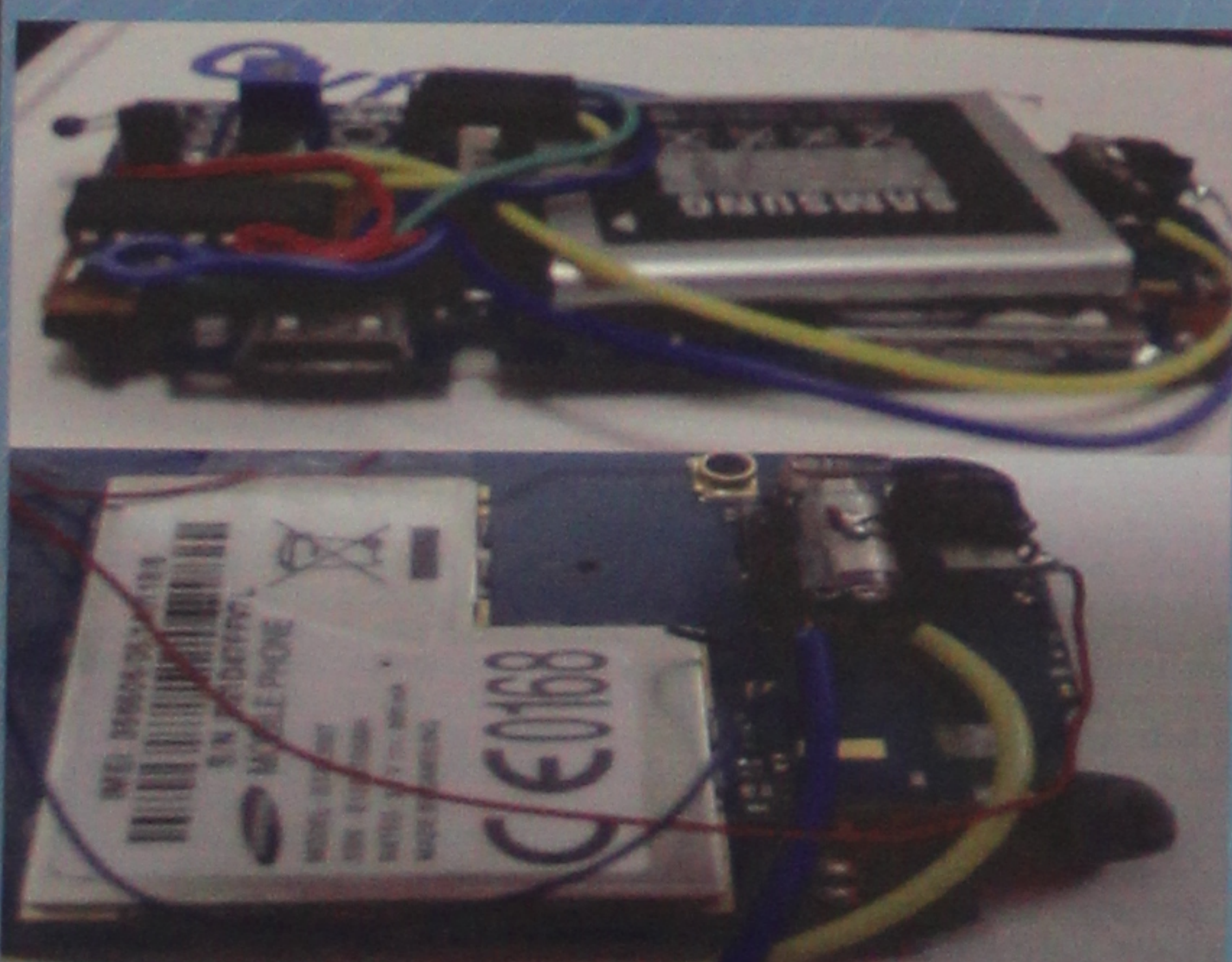
Scope

- Study about human temperature monitoring.
- Develop the system using GSM to transmit and the alert of higher temperature.
- Design and develop system to integrate between GSM and auto dialler temperature sensor.

Human Body Temperature

[a] Detect the temperature and Transmit signal

[b] Inverter and switches circuit

[c] GSM auto dialer that transmit the data.

[d] Act as a switch, get the signal from the temperature sensor

[e] voltage output : 3.3v connect directly to the GSM

Design concept of GSM temperature alert system.

Complete wiring of temperature monitoring system.