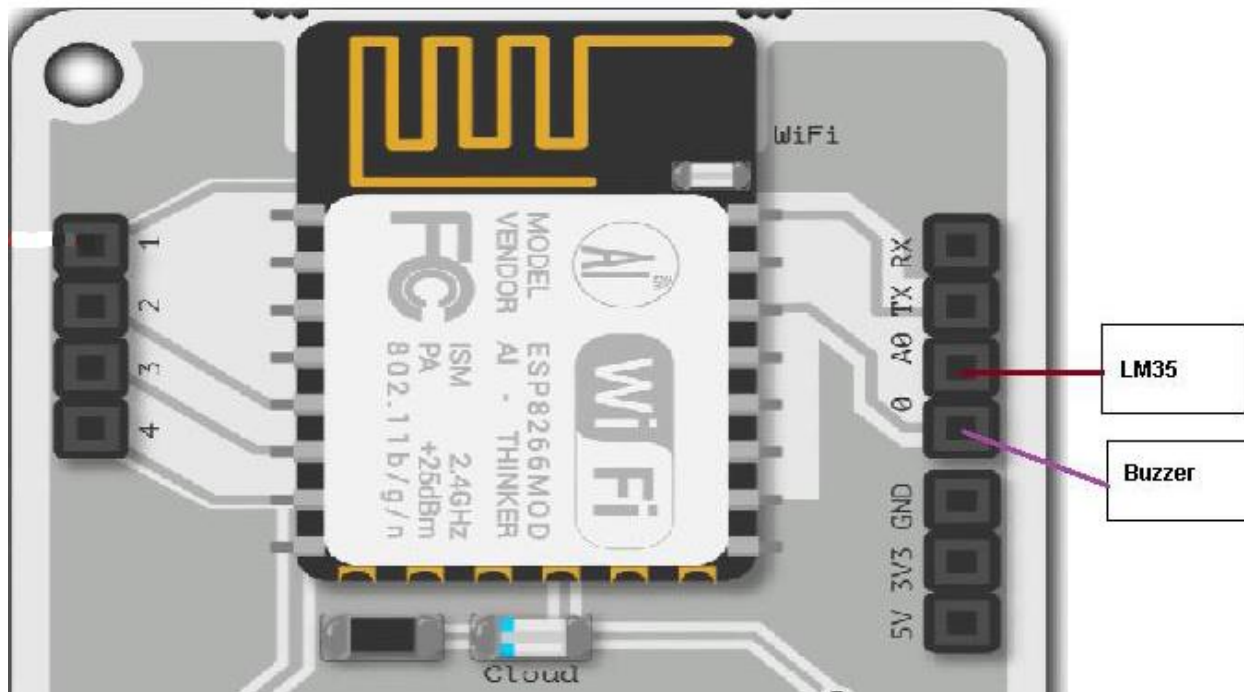# Problem Statement

The main problem is to alert the user, whenever the temperature goes out of range. Here the main concept is to use a LM35 sensor. The software program keeps check on the temperature. If it falls or rises beyond range then a warning flashes on the screen and the buzzer in the area turns on. Then the employees can then see the issue.

Interfacing with Wi-Fi Module

Working:

The LM35 sensor gives it values to analog pin that is A0. The buzzer is controlled through pin 0. The buzzer is controlled by digital signal.

Software Working

It reads the analog value. The value is converted in10 bit binary as A0 pin has 10 bits analog to digital converter. In order to make it in range we divide the value by 10.24 which gives answer in degree centigrade. Then it compares the received value with threshold, if found beyond then it turns on buzzer and don't turn it off until user acknowledges it. If in range then it keeps checking it periodically.