## Sachin--Assignment code

```
#include <TimerOne.h>
const int sensorPin = A0;
const int ledPin = 13;
volatile bool ledState = false;
void setup() {
 pinMode(ledPin, OUTPUT);
 Timer1.initialize(250000);
 Timer1.attachInterrupt(toggleLed);
}
void loop() {
 int sensorValue = analogRead(sensorPin);
 float voltage = sensorValue * 5.0 / 1023;
 float temperature = voltage * 100;
 if (temperature < 30) {
  Timer1.setPeriod(250000);
 } else {
  Timer1.setPeriod(500000);
}
}
void toggleLed() {
 ledState = !ledState;
 digitalWrite(ledPin, ledState);
}
```