ASSIGNMENT - 1

```
int led = 12;
int sensor = 2;
int temp=A0;
int state = LOW;
int buzzer=13;
int val = 0;

void setup() {
  pinMode(led, OUTPUT);
  pinMode(sensor, INPUT);
  pinMode(temp,INPUT);
  pinMode(buzzer,OUTPUT);
  Serial.begin(9600);
}

void loop(){
  double temp= analogRead(A0);
  double c= (((temp/1024)*5)-0.5)*100;
  Serial.print("Celsius Value");
  Serial.println(c);
  delay(1000);
  if(c>50)
  {
   tone(13,30);
  }
```

```
  val = digitalRead(sensor);
  if (val == HIGH) {
    digitalWrite(led, HIGH);
    delay(500);

    if (state == LOW) {
      state = HIGH;
    }
  }
  else {
      digitalWrite(led, LOW);
      delay(500);

      if (state == HIGH){

        state = LOW;
    }
  }
}
```