TEAM ID: PNT2022TMID52856

ROLL NO: CITC1904109 NAME :SATHISH P

ASSIGNMENT - 2

Build a python code, assume you get temperature (generated with random function to a variable) and write a condition to continuously detect alarm incase of high temperature."

CODE:

```
nt t=2;
int e=3;
void setup()
  Serial.begin(9600);
  pinMode(t,OUTPUT);
  pinMode(e,INPUT);
  pinMode(12,OUTPUT);
void loop()
  //ultrasonic sensor
  digitalWrite(t,LOW);
  digitalWrite(t,HIGH);
  delayMicroseconds(10);
  digitalWrite(t,LOW);
        dur=pulseIn(e,HIGH);
        dis=(dur*0.0343)/2;
  Serial.print("Distance is: ");
Serial.println(dis);
    //LED ON
  if(dis>=100)
    digitalWrite(8,HIGH);
    digitalWrite(7,HIGH);
  //Buzzer For ultrasonic Sensor
  if(dis>=100)
  for(int i=0; i<=30000; i=i+10)
  tone(12,i);
  delay(1000);
  noTone(12);
  delay(1000);
```

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```
//Temperate Sensor
double a= analogRead(A0);
double t=(((a/1024)*5)-0.5)*100;
Serial.print("Temp Value: ");
Serial.println(t);
delay(1000);
//LED ON
if(t>=100)
  digitalWrite(8,HIGH);
  digitalWrite(7, HIGH);
//Buzzer for Temperature Sensor
if(t>=100)
for(int i=0; i<=30000; i=i+10)
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
   //LED OFF
 if(t<100)
    digitalWrite(8,LOW);
    digitalWrite(7,LOW);
```

OUTPUT:

