TEAM ID: PNT2022TMID52856

ROLL NO: CITC1904104 NAME :PRIYA DHARSHINI C

## ASSIGNMENT - 2

Build a python code, assume u get temperature (generated withrandom function to a variable) and write a condition to continuously detect alarm in case 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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```
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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
```

## //LED OFF if(t<100) { digitalWrite(8,LOW); digitalWrite(7,LOW); }</pre>

## **OUTPUT:**

