ROLL NO: CITC1904045 NAME: SATHEESH KUMAR S

TEAM ID: PNT2022TMID52802

CODE:

```
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)
```

```
//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);
}
</pre>
```

```
//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);
}</pre>
```

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```
int 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);
float dur=pulseIn(e, HIGH);
float dis=(dur*0.0343)/2; Serial.print("Distance is: "); Serial.println(dis);
//LED ON if(dis >=100)
//LED ON if(dis >=100)
digitalWrite(8,HIGH);
digitalWrite(7,HIGH); 7/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);
//Temperate Sensor double a= analogRead(AD):
//Temperate Sensor double a= analogRead(AO);
double t=(((a/1024)*5) -0.5)*100;
```

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```
Serial.print("Temp Value: ");

Serial.println(t); delay(1000); //LED ON if(t>=100)

digitalWrite(8,HIGH);

digitalWrite(7,HIGH); 7/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:

