TEAM ID: B5-5M1E

ROLL NO: CITC2004208
NAME: SOORYA R

CODE:

```
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);
  }

  //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(A0);
```

```
  //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);
  }
}
```

```
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;
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: