ASSIGNMENT - 1

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Code:

```
// C++
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>=60)        //(in terms of centimeter)
  {

        digitalWrite(8,HIGH);
        digitalWrite(7,HIGH);
  }
  //Buzzer For ultrasonic
  Sensor if(dis>=60)
  {
        for(int i=0; i<=5; i=i+1)
  {
  tone(12,i);
  delay(1000);
  noTone(12);
  delay(1000);
  }
  }
//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>=20)          //(in terms of celsius)
 {
       digitalWrite(8,HIGH);
       digitalWrite(7,HIGH);


 }
 //Buzzer for Temperature
 Sensor if(t>=20)
 {
       for(int i=0; i<=5; i=i+1)
 {
       tone(12,i);
       delay(1000);
       noTone(12);
       delay(1000);
 }

 }
//LED OFF
if(t<20)
```

```
{
        digitalWrite(8, LOW);
        digitalWrite(7, LOW);
        }
```