

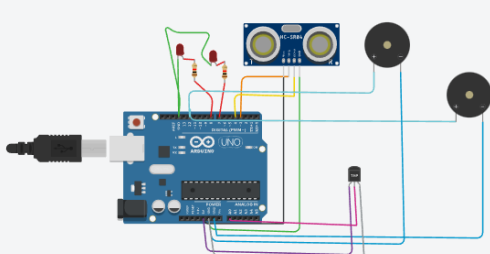
Circuit Diagram

Assignment 2

Assignment 2

All changes saved

Code Start Simulation Send To



```
1 int t=2;
2 int e=3;
3 void setup()
4 {
5   Serial.begin(9600);
6   pinMode(t,OUTPUT);
7   pinMode(e,INPUT);
8   pinMode(12,OUTPUT);
9 }
10 void loop()
11 {
12   //ultrasonic sensor
13   digitalWrite(t,LOW);
14   digitalWrite(t,HIGH);
15   delayMicroseconds(10);
16   digitalWrite(t,LOW);
17   float dur=pulseIn(e,HIGH);
18   float dis=(dur*0.0343)/2;
19   Serial.print("Distance is: ");
20 }
```

Serial Monitor

Temp Value: 24.71
Distance is: 0.00
Temp Value: 24.71
Distance is: 0.00
Temp Value: 24.71
Distance is: 0.00
Temp Value: 24.71

Send Clear

```
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)
{
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);
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);

}}
```