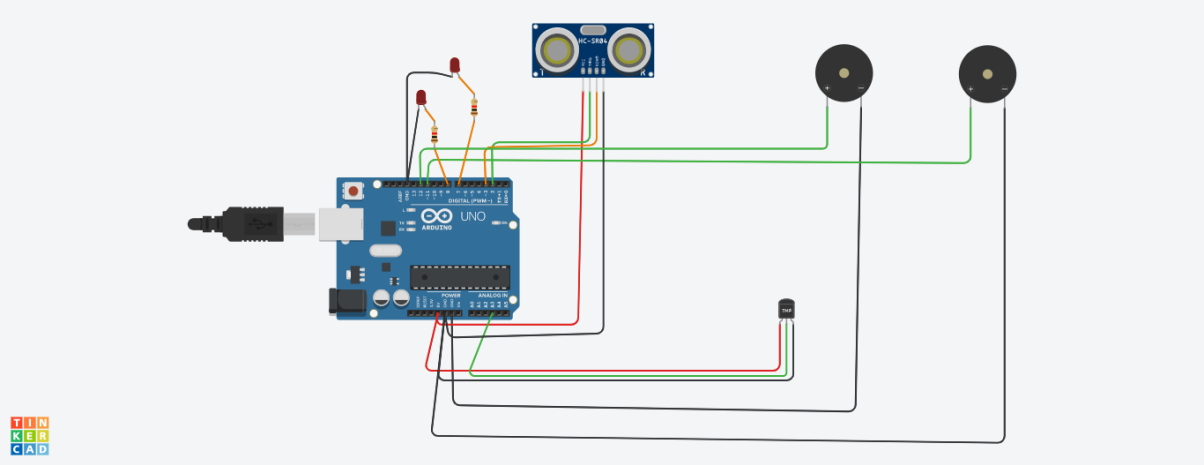
ASSIGNMENT-1



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);


          if(dis>=100)
```

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


if(dis>=100)
{
for(int i=0; i<=30000; i=i+10)
{
  tone(12,i);
  delay(1000);
  noTone(12);
  delay(1000);
}
}

if(t>=100)
{
  digitalWrite(8,HIGH);
  digitalWrite(7,HIGH);
}


if(t>=100)
{
for(int i=0; i<=30000; i=i+10)
{
  tone(12,i);
  delay(1000);
  noTone(12);
  delay(1000);
}
}


//TEMPERATURE SENSOR
double a=analogRead(A3);
double t=(((a/1024)*5)-0.5)*100;
Serial.print("Temp Value: ");
Serial.println(t);
delay(1000);


if(t<100)
   {
```

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