ASSIGNMENT-4

DATE	30-OCT-2022
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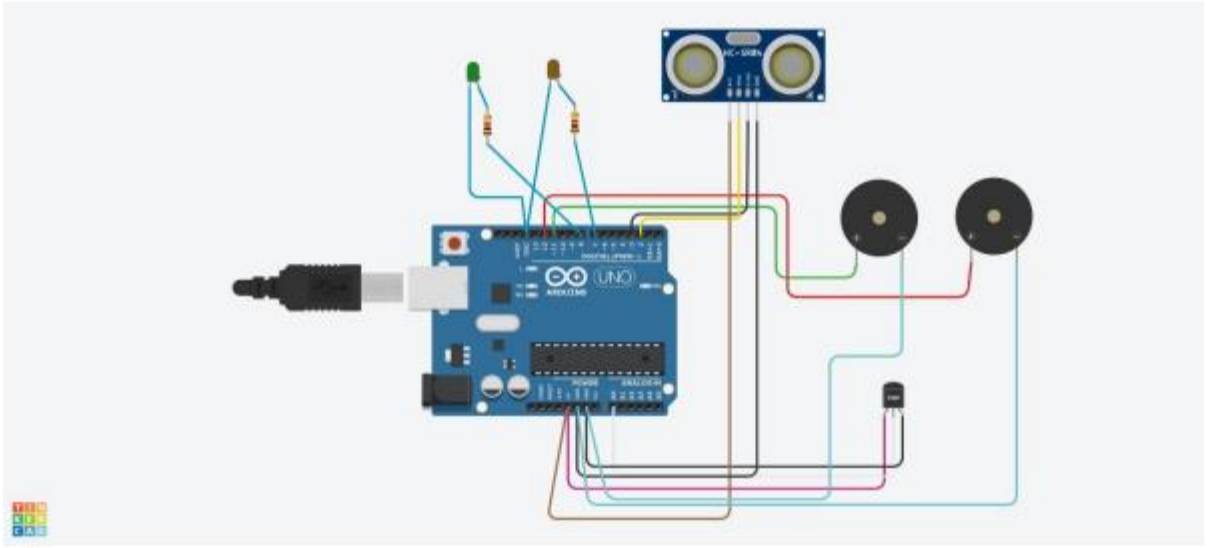
STUDENT ROLL NO	912619106007
MAXIMUM MARK	2 MARKS

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)
  {
    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);
  }
}
```