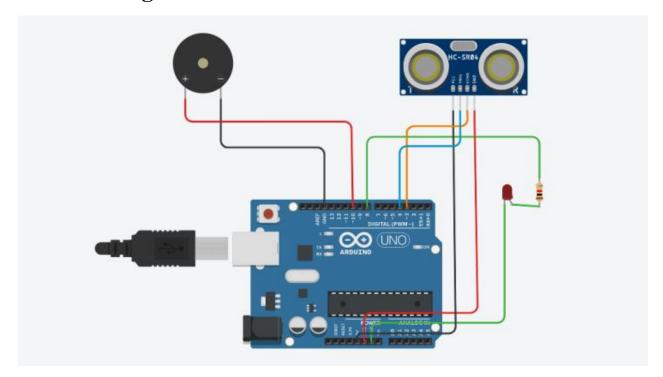
## **Circuit Design**



## **Program:**

```
int t=4;
int e=3;
int b=10;
int time;
int distance;

void setup()
{
   pinMode(8,OUTPUT);
   pinMode(3,INPUT);
   pinMode(4,OUTPUT);
   pinMode(10,OUTPUT);
   serial.begin(9600);
}
```

```
void loop()
{
  digitalWrite(t, HIGH);
  delayMicroseconds(10);
  digitalWrite(t, LOW);
  delayMicroseconds(10);
  time=pulseIn(e,HIGH);
  distance=(time*0.034)/2;
  if(distance<=100)</pre>
  {
    Serial.print("Distance= ");
    Serial.println(distance);
    digitalWrite(8,HIGH);
    delay(10);
    digitalWrite(10,LOW);
    delay(10);
  }
  else
    {
    Serial.print("Distance= ");
    Serial.println(distance);
    digitalWrite(8,LOW);
    delay(10);
    digitalWrite(10,HIGH);
    delay(10);
  }
}
```

## **Output:**

