

```
int sensor=4, trig=2, echo=2, light=8, buzz=12;
int dist = 0;
long objectDistance(int a, int b)
  pinMode(a, OUTPUT);
  digitalWrite(a, LOW);
  delayMicroseconds(2);
  digitalWrite(a, HIGH);
  delayMicroseconds(10);
  digitalWrite(a, LOW);
  pinMode(b, INPUT);
  return pulseIn(b, HIGH);
}
void setup()
  Serial.begin(9600);
  pinMode(sensor, INPUT);
 pinMode(light, OUTPUT);
 pinMode(buzz, OUTPUT);
  digitalWrite(light, LOW);
```

```
void loop()
{
    dist = 0.01723 * objectDistance(trig, echo);
    Serial.print("Distance is ");
    Serial.print(dist);
    Serial.println("cm");
    if(dist>50 && dist<100)
    {
       tone(buzz, 50);
       delay(2000);
       noTone(buzz);

    if(digitalRead(sensor))
       {
            digitalWrite(light, HIGH);
            delay(2000);
        }
     }
}</pre>
```