PROGRAM CODE:

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

```
void loop()
{
 //readUltrasonicDistance(7, 7)
 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);
  //delay(1000);
  if(digitalRead(sensor))
   digitalWrite(light, HIGH);
   delay(2000);
  }
```

