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);
  }
 }
}
```

