

Code

```
const int trigPin= 9;

const int  echoPin =8;

const int buzzer=11;

const int ledPin=13;

long duration;

Int distance;

Int safety distance;

void setup() {

Serial.begin (9600);

pinMode(trigPin, OUTPUT);

pinMode(echoPin, INPUT);

pinMode (ledPin,OUTPUT);

pinMode (buzzer, OUTPUT);

}


void loop() {

digitalWrite(trigPin, LOW);

delay(2);

digitalWrite(trigPin, HIGH);

delay(10);

digitalWrite(trigPin, LOW);


duration = pulseIn(echoPin, HIGH);

distance=duration×0.034÷2;

safetyDistance=distance;

If safetyDistance<=10)

{

digitalWrite(buzzer, HIGH);
```

```
delay(200);

digitalWrite (ledPin,HIGH);
delayWrite (buzzer,LOW);
delay(20000);
}
else
{
digitalWrite (buzzer,LOW);
digitalWrite (ledPin,LOW);
}
Serial.print("Distance:");
Serial.println(distance);
}
```