



Source Code

```
#define trigPin 12
#define echoPin 13

void setup() {
  Serial.begin (115200);
  pinMode(trigPin, OUTPUT);
  pinMode(echoPin, INPUT);
  pinMode(7, OUTPUT);
  pinMode(6, OUTPUT);
}

void loop() {
  int duration, distance;
  digitalWrite(trigPin, HIGH);
  delayMicroseconds(1000);
  digitalWrite(trigPin, LOW);
  duration = pulseIn(echoPin, HIGH);
  distance = (duration/2) / 29.1;

  if (distance >= 200 || distance <= 0){
    Serial.println("Out of range");
  }
  else if (distance >=0 && distance <=30){
    beepFast();
    Serial.print(distance);
    Serial.println(" cm");
  }
  else if (distance >=31 && distance <=50) {
    Serial.print(distance);
    Serial.println(" cm");
    beepMedium();
  }
}
```

```
}  
else {  
    beepNo();  
    Serial.print(distance);  
    Serial.println(" cm");  
}  
}
```

```
void beepFast(){  
    tone(8, 440, 200);  
    digitalWrite(7, HIGH);  
    delay(50);  
    noTone(8);  
    digitalWrite(7, LOW);  
    delay(300);  
}
```

```
void beepMedium(){  
    tone(8, 440, 200);  
    digitalWrite(7, HIGH);  
    delay(200);  
    noTone(8);  
    digitalWrite(7, LOW);  
    delay(300);  
}
```

```
void beepNo(){  
    noTone(8);  
    digitalWrite(6, HIGH);  
    delay(300);  
    digitalWrite(6, LOW);  
}
```