```
#define trigPin 12
#define echoPin 13
int Buzzer = 8; // Connect buzzer pin to 8
int ledPin= 6; //Connect LEd pin to 6
int duration, distance; //to measure the distance and time taken
void setup() {
     Serial.begin (9600);
     //Define the output and input objects(devices)
     pinMode(trigPin, OUTPUT);
     pinMode(echoPin, INPUT);
     pinMode(Buzzer, OUTPUT);
     pinMode(ledPin, OUTPUT);
}
void loop() {
  digitalWrite(trigPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigPin, LOW);
  duration = pulseIn(echoPin, HIGH);
  distance = (duration/2) / 29.1;
  //when distance is greater than or equal to 200 OR less than or equal to 0,the buzzer and
LED are off
 if (distance < 100)
     {
     Serial.println("alert");
     digitalWrite(Buzzer,LOW);
     digitalWrite(ledPin,LOW);
 else {
     Serial.println("object detected \n");
     Serial.print("distance= ");
     Serial.print(distance);
                               //prints the distance if it is between the range 0 to 200
     tone(Buzzer,400);
                                // play tone of 400Hz for 500 ms
     digitalWrite(ledPin,HIGH);
}
}
```

Output

