

```
// C++ code

//

void setup()

{

    Serial.begin(9600);

    pinMode(7, OUTPUT);

    pinMode(6, INPUT);

    pinMode(3, OUTPUT);

    pinMode(1, INPUT);

    pinMode(13, OUTPUT);

}


void loop()

{

    digitalWrite(7, LOW);

    digitalWrite(7, HIGH);

    delayMicroseconds(10);

    digitalWrite(7, LOW);

    float dur=pulseIn(6,HIGH);

    float dis=((dur/2)*0.0343);

    if(dis<100)

    {

        digitalWrite(3,HIGH);

    }

}
```

```
else
{
    digitalWrite(3,LOW);
}
int value=digitalRead(1);
if(value==1)
{
    digitalWrite(13,HIGH);
}
else
{
    digitalWrite(13,LOW);
}
}
```