```cpp
// 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);
 }


}
```