

C++ Code

```
int trig=4;
int echo=3;
void setup()
{
  Serial.begin(9600);
  pinMode(12, OUTPUT);
  pinMode(2, OUTPUT);
  pinMode(8, INPUT);
  pinMode(7, OUTPUT);
  pinMode(trig, OUTPUT);
  pinMode(echo, INPUT);
}
void loop()
{
  float dur=pulseIn(echo, HIGH);
  float dist=(dur*0.0343)/2;
  int m=digitalRead(8);
  double a=analogRead(A3);
  double v=a/1024;
  double tvolt=v*5;
  double o=tvolt-0.5;
  double t=o*100;
  if (t>50)
  {
    digitalWrite(2, HIGH);
  }
  else
  {
    digitalWrite(2, LOW);
  }
  if(m==1)
  {
    digitalWrite(12, HIGH);
  }
  else
```

```
{
  digitalWrite(12, LOW);
}
//digitalWrite(trig,LOW);
//digitalWrite(trig,HIGH);

if(dist<=100)
{
  digitalWrite(7,HIGH);

}
else
{
  digitalWrite(7,LOW);

}

}
```