CODE:

```
int t=4;
int e=3;
int l=11;
void setup()
{
  pinMode(t,OUTPUT);
  pinMode(l,OUTPUT);
  pinMode(e,INPUT);
  pinMode(13,OUTPUT);
  pinMode(12,OUTPUT);
```

```arduino
  pinMode(11,OUTPUT);

  Serial.begin(9600);


}


void loop()

{

  digitalWrite(t,0);

  digitalWrite(t,1);

  delayMicroseconds(10);

  digitalWrite(t,0);

  float dur = pulseIn(e,HIGH);

  int dis = (dur*0.0343)/2;

  Serial.print("Distnce is ");

  Serial.println(dis);

  analogWrite(l,map(dis,2,320,255,0));

  int a=digitalRead(2);

  Serial.println(a);

  if(a==1){

    tone(13,300);

    delay(1000);

  }
```

```
else{
  noTone(13);
}
double z=analogRead(A0);
double s=(((z/1024)*5)-0.5)*100;
Serial.println(s);
if(s>100)
  digitalWrite(12,1);
else
  digitalWrite(12,0);
```