```
#include<Servo.h>
int dist = 0;
int gassensor = 0;
long readUltrasonicDistance(int triggerPin, int echoPin)
{
 pinMode(triggerPin, OUTPUT);
 digitalWrite(triggerPin, LOW);
 delayMicroseconds(2);
 digitalWrite(triggerPin, HIGH);
 delayMicroseconds(10);
 digitalWrite(triggerPin, LOW);
 pinMode(echoPin, INPUT);
 return pulseIn(echoPin, HIGH);
}
/*void gassensorfts()
{
 gassensor = analogRead(A0);
if (gassensor >= 250) {
  tone(7, 523, 1000); // play tone 60 (C5 = 523 Hz)
}
delay(10);
}*/
Servo mainServo;
void setup()
{
 mainServo.attach(8, 500, 2500);
 pinMode(13,OUTPUT);
```

```
pinMode(4,INPUT);
 pinMode(12,OUTPUT);
 pinMode(A0, INPUT);
 pinMode(12, OUTPUT);
Serial.begin(9600);
}
void loop()
{
dist = 0.01723 * readUltrasonicDistance(7, 7);
 if (dist <= 100) {
  mainServo.write(90);
  delay(1000);
} else {
  mainServo.write(0);
  delay(1000);
}
 if (digitalRead(4) == 1) {
  digitalWrite(13, HIGH);
  //delay(1000);
} else {
  digitalWrite(13, LOW);
  //delay(1000);
}
 gassensor = analogRead(A0);
 if (gassensor >= 250) {
  tone(12, 523, 1000);
  delay(10);
}
```

}