```
#define POWER_PIN 7
#define SIGNAL_PIN A5
#define THRESHOLD 250
int value = 0;
int sensorPin = A0;  //gas sensor
float sensorValue;
#include <Servo.h>
Servo myservo;
Servo myservoo;
int pos = 0;

void setup() {

  Serial.begin(9600);
  pinMode(POWER_PIN, OUTPUT);
  digitalWrite(POWER_PIN, LOW);
  pinMode(sensorPin, INPUT);
  myservo.attach(9);
  myservoo.attach(6);
}

void loop() {

  digitalWrite(POWER_PIN, HIGH);   // turn the sensor ON
  delay(10);                       // wait 10 milliseconds
```

```
value = analogRead(SIGNAL_PIN);  // read the analog value from sensor
digitalWrite(POWER_PIN, LOW);    // turn the sensor OFF
Serial.print("Sensor value: ");
Serial.println(value);

if (value > THRESHOLD) {
  Serial.print("The water is detected");
  for (pos = 0; pos <= 180; pos += 1) {  // goes from 0 degrees to 180 degrees
    // in steps of 1 degree
    myservo.write(pos);  // tell servo to go to position in variable 'pos'
                         // waits 15ms for the servo to reach the position
  }
} else {
  Serial.print("The water is not detected");
  for (pos = 180; pos >= 0; pos -= 1) {  // goes from 180 degrees to 0 degrees
    myservo.write(pos);                  // tell servo to go to position in variable 'pos'
  }
  sensorValue = analogRead(sensorPin);
  Serial.println(sensorValue);
  if (sensorValue > 100) {
    for (pos = 0; pos <= 180; pos += 1) {  // goes from 0 degrees to 180 degrees
      // in steps of 1 degree
      myservoo.write(pos);  // tell servo to go to position in variable 'pos'
    }
  } else {
```

```
    for (pos = 180; pos >= 0; pos -= 1) {  // goes from 180 degrees to 0 degrees
      myservoo.write(pos);                 // tell servo to go to position in variable 'pos'
    }
   }
  }
}
```