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// C++ code
int set waterlevel = 0;
int waterlevel = 0;
int moisture data = 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 setup()
  pinMode(A0, INPUT);
 Serial.begin(9600);
 pinMode(8, OUTPUT);
 pinMode(10, OUTPUT);
 pinMode(6, OUTPUT);
void loop()
 waterlevel = 0.01723 * readUltrasonicDistance(3, 2);
 Serial.print(waterlevel);
 Serial.println("WATER LEVEL");
 if (waterlevel > 200) {
  digitalWrite(8, HIGH);
  digitalWrite(10, LOW);
  digitalWrite(6, LOW);
 if (waterlevel < 100) {
  digitalWrite(8, HIGH);
  digitalWrite(10, HIGH);
  digitalWrite(6, HIGH);
 if (waterlevel <=200)
  digitalWrite(8,HIGH);
  digitalWrite(10,LOW);
 digitalWrite(6, LOW);
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delay(10);
}
moisture_data = analogRead(A0);
Serial.print(moisture_data);
Serial.println("Moisture data");
if (moisture_data < 12) {
    digitalWrite(10, HIGH);
    digitalWrite(6, HIGH);
} else {
    digitalWrite(10, LOW);
    digitalWrite(6, LOW);
}
delay(10); //
}</pre>
```