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// This is the code to add chlorine to the swimming pool

// Ce code est celui que l'on voulait utiliser si nous avons pu trouver le
// capteur de chlore que l'on voulait.

int ChlorinePump = 13; //motor pump connected to pin 13
int sensor = 8; //sensor digital pin connected to pin 8
int val; //This variable stores the value received from the chlorine sensor.
int valConverted; // here; we store val in valConverted after converting it to
<parties par millions>

void setup() {

    pinMode(13,OUTPUT); //Set pin 13 as OUTPUT pin
    pinMode(8,INPUT); //Set pin 8 as input pin, to receive data from the chlorine
    sensor.
    //Initialize serial and wait for port to open:
    Serial.begin(9600); // opens serial port, sets data rate to 9600 bps
}

void loop()
{
    if (Serial.available()) //loop to operate motor
    {
        int speed = Serial.parseInt(); // to read the number entered as text in the
        Serial Monitor

        // Serial comes from the serial monitor; we can use it; I guess it should be
        around 200
        if (speed >= 0 && speed <= 255)
        {
            analogWrite(ChlorinePump, speed); // turns on the motor at specified speed
        }
    }
    val = digitalRead(8); //Read data from the chlorine sensor; it's going to be a
    value in milliVolt
    valConverted = val*0.001;

    if(valConverted < 1)
    {
        digitalWrite(13,HIGH); //if chlorine sensor provides LOW (<1) value send HIGH
        value to motor pump and motor pump get on
    }
    else

```

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{  
  digitalWrite(13,LOW); //if chlorine sensor provides HIGH >=1 value send LOW  
  value to motor pump and motor pump get off  
}  
delay(400); //Wait for few second and then continue the loop.  
}
```