```
int sensorPin = A0; // Select the input pin for the potentiometer
int sensorValue = 0; // Variable to store the value coming from the sensor
void setup() {
 // Declare the LED pins as outputs
 pinMode(2, OUTPUT);
 pinMode(3, OUTPUT);
 pinMode(4, OUTPUT);
 pinMode(5, OUTPUT);
 // Start serial communication for debugging
 Serial.begin(9600);
void loop() {
 // Read the value from the sensor
 sensorValue = analogRead(sensorPin);
 Serial.println(sensorValue); // Print the sensor value to the serial monitor
 // Turn LEDs on/off based on the water level
 if(sensorValue > 768) { // Highest water level
  digitalWrite(2, HIGH);
  digitalWrite(3, HIGH);
  digitalWrite(4, HIGH);
  digitalWrite(5, HIGH);
 } else if(sensorValue > 512) { // High water level
  digitalWrite(2, HIGH);
  digitalWrite(3, HIGH);
  digitalWrite(4, HIGH);
  digitalWrite(5, LOW);
 } else if(sensorValue > 256) { // Medium water level
  digitalWrite(2, HIGH);
  digitalWrite(3, HIGH);
  digitalWrite(4, LOW);
  digitalWrite(5, LOW);
 } else if(sensorValue > 0) { // Low water level
  digitalWrite(2, HIGH);
  digitalWrite(3, LOW);
  digitalWrite(4, LOW);
  digitalWrite(5, LOW);
 } else { // No water
  digitalWrite(2, LOW);
  digitalWrite(3, LOW);
  digitalWrite(4, LOW);
  digitalWrite(5, LOW);
 }
 delay(1000); // Wait for a bit before reading the sensor again
}
```