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sketch_dec9b | Arduino IDE 2.3.4
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Arduino Uno

sketch_dec9b.ino
1 int sensor_pin = A0; // Sensor connected to analog pin A0
2 int white_light = 7; // White LED connected to digital pin 7
3 int red_light = 8; // Red LED connected to digital pin 8
4
5 void setup()
6 {
7   Serial.begin(9600); // Start Serial communication
8   pinMode(sensor_pin, INPUT); // Set sensor pin as input
9   pinMode(white_light, OUTPUT); // Set white LED pin as output
10  pinMode(red_light, OUTPUT); // Set red LED pin as output
11 }
12
13 void loop()
14 {
15   int sensor_data = analogRead(sensor_pin); // Read moisture sensor data
16   Serial.print("Sensor Data: ");
17   Serial.println(sensor_data);
18
19   if(sensor_data >= 0 && sensor_data <= 500)
20   {
21     // Turn on white LED for 0-500
22     Serial.println("Moisture level low, White LED ON.");
23     digitalWrite(white_light, HIGH); // Turn white LED on
24     digitalWrite(red_light, LOW); // Ensure red LED is off
25   }
26   else if(sensor_data >= 501 && sensor_data <= 700)
27   {
28     // No light for 501-700
29     Serial.println("Moisture level medium, No LED.");
30     digitalWrite(white_light, LOW); // Turn white LED off
31     digitalWrite(red_light, LOW); // Turn red LED off

```