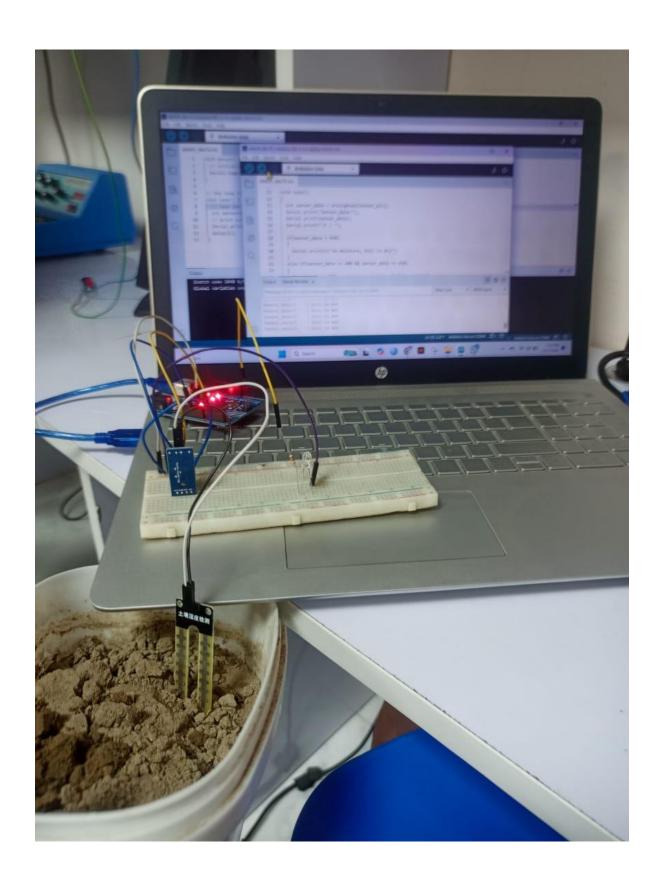
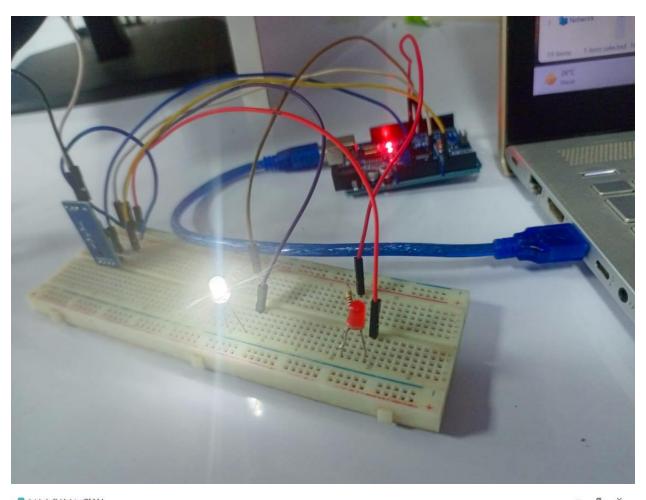
Soil Moisture Sensor with Arduino





sketch_dec9b | Arduino IDE 2.3.4
File Edit Sketch Tools Help

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

Components:

- 1) Arduino UNO R3
- 2) Breadboard
- 3) Capacitive Soil Moisture Sensor