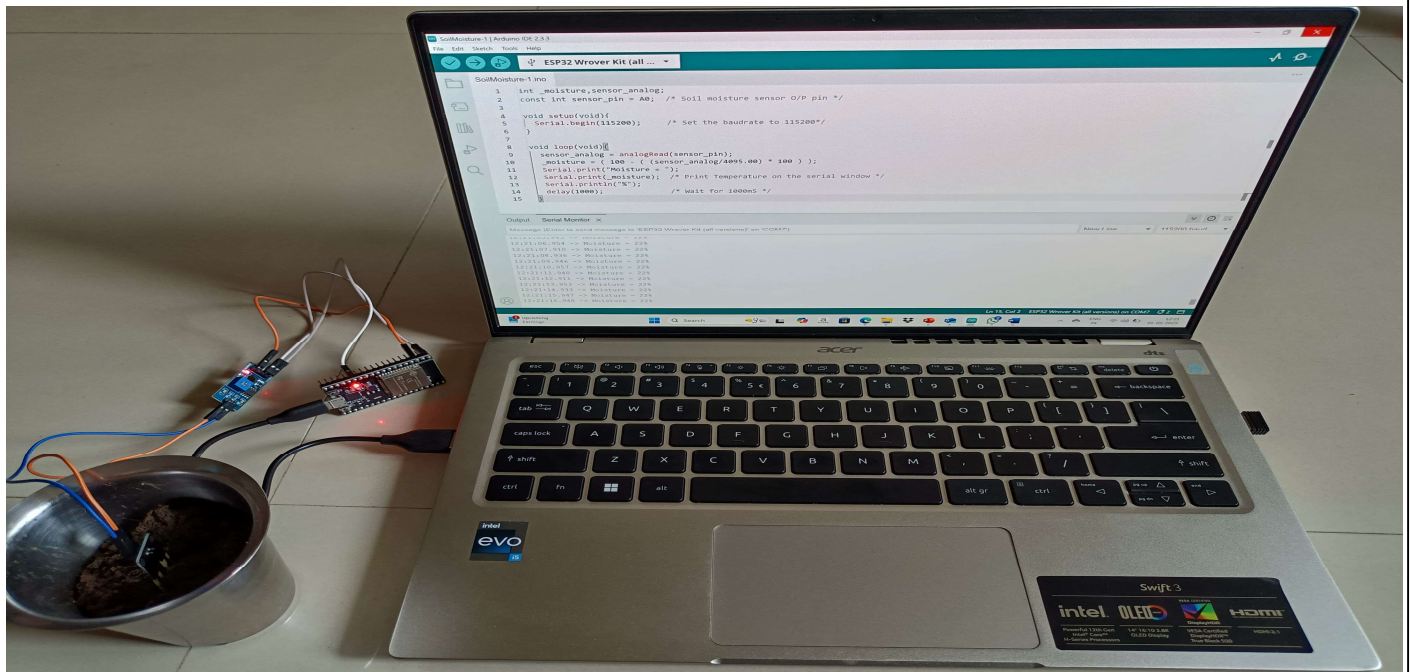
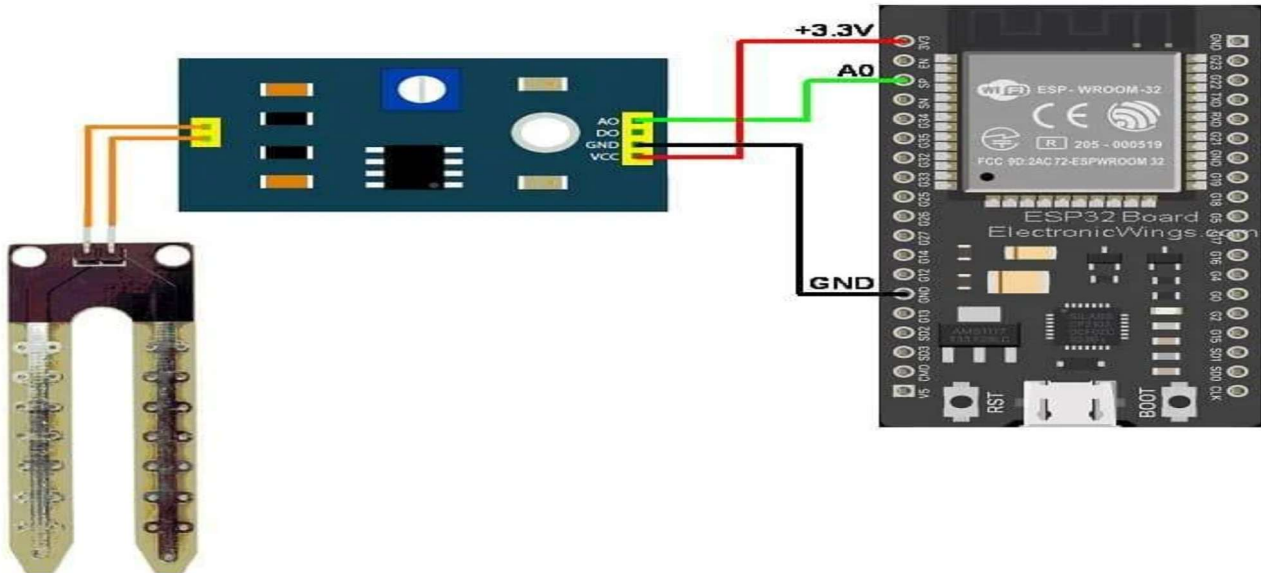


Smart Irrigation System

1.Connection and Implementation/Demonstration of Soil Moisture Sensor to ESPWROOM32 with Output:

Soil Moisture Hardware Connection with ESP32



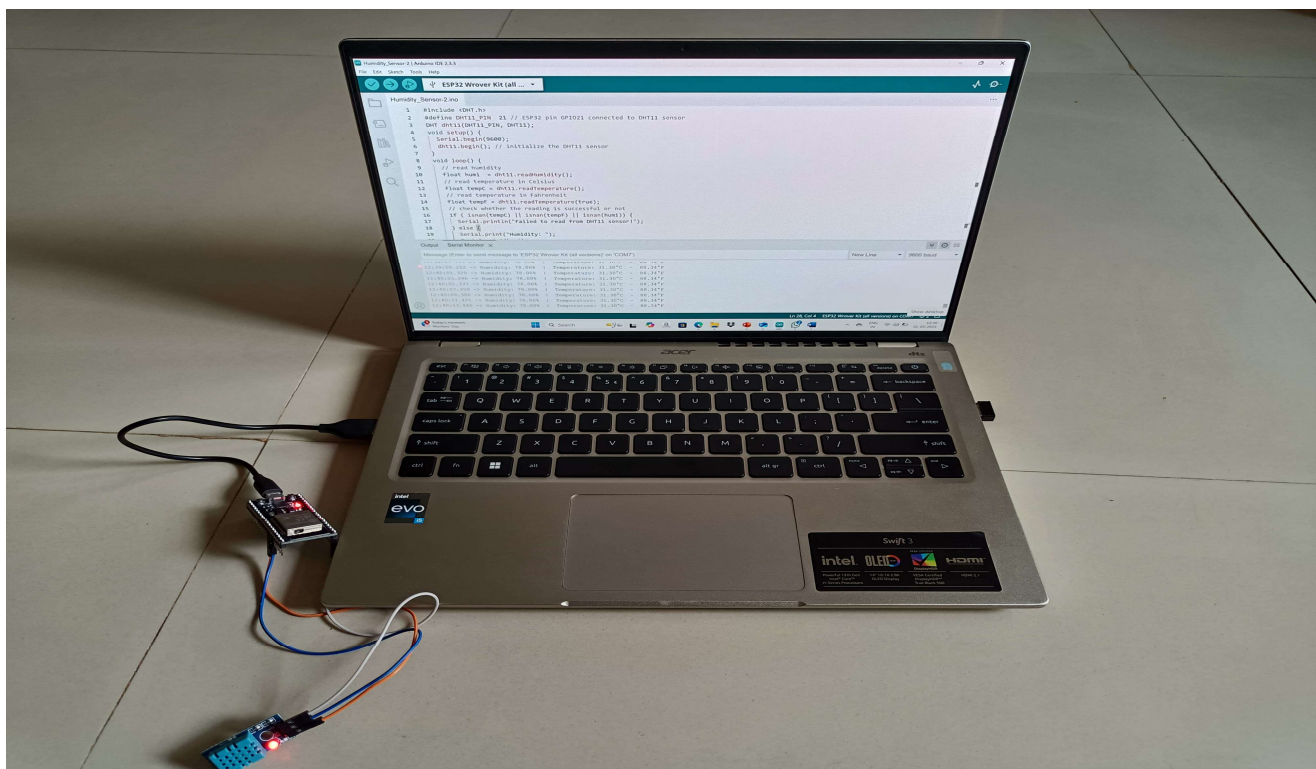
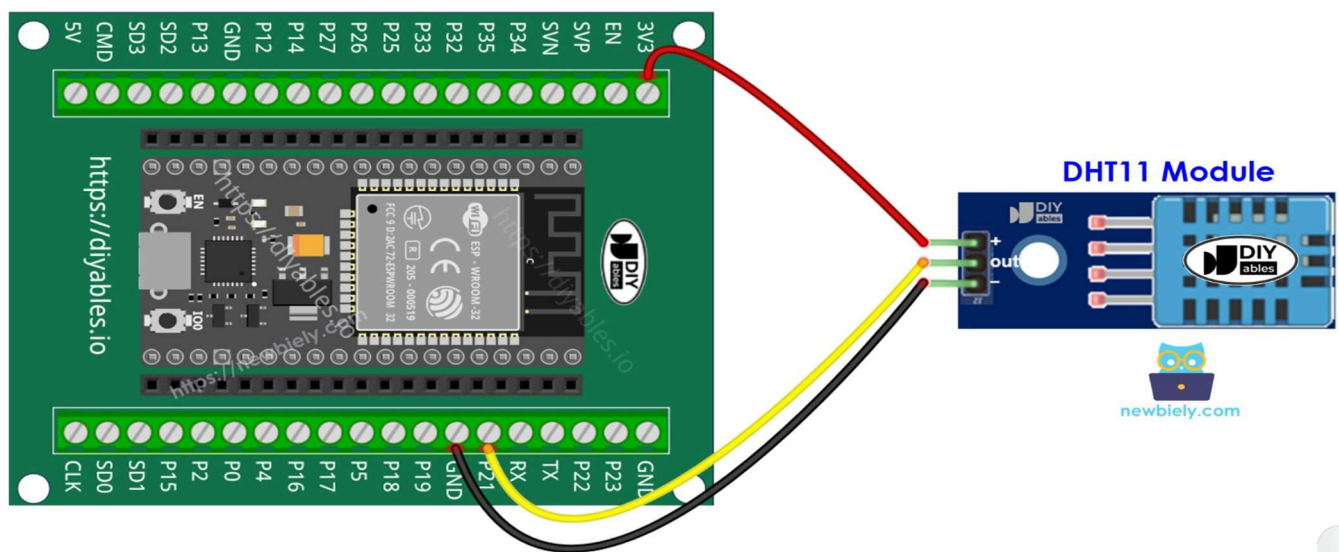
Message (Enter to send message to 'ESP32 Wrover Kit (all versions)' on 'COM7')

New Line

115200 baud

```
12:16:57.419 -> Moisture = 22%
12:16:58.418 -> Moisture = 22%
12:16:59.428 -> Moisture = 22%
12:17:00.440 -> Moisture = 22%
12:17:01.426 -> Moisture = 22%
12:17:02.399 -> Moisture = 22%
12:17:03.437 -> Moisture = 22%
12:17:04.399 -> Moisture = 22%
12:17:05.400 -> Moisture = 22%
12:17:06.399 -> Moisture = 22%
12:17:07.434 -> Moisture = 22%
12:17:08.415 -> Moisture = 22%
12:17:09.432 -> Moisture = 22%
12:17:10.427 -> Moisture = 22%
```

2.Connection and Implementation/Demonstration of Humidity Temperature (DHT) Sensor to ESPWROOM32 with Output:

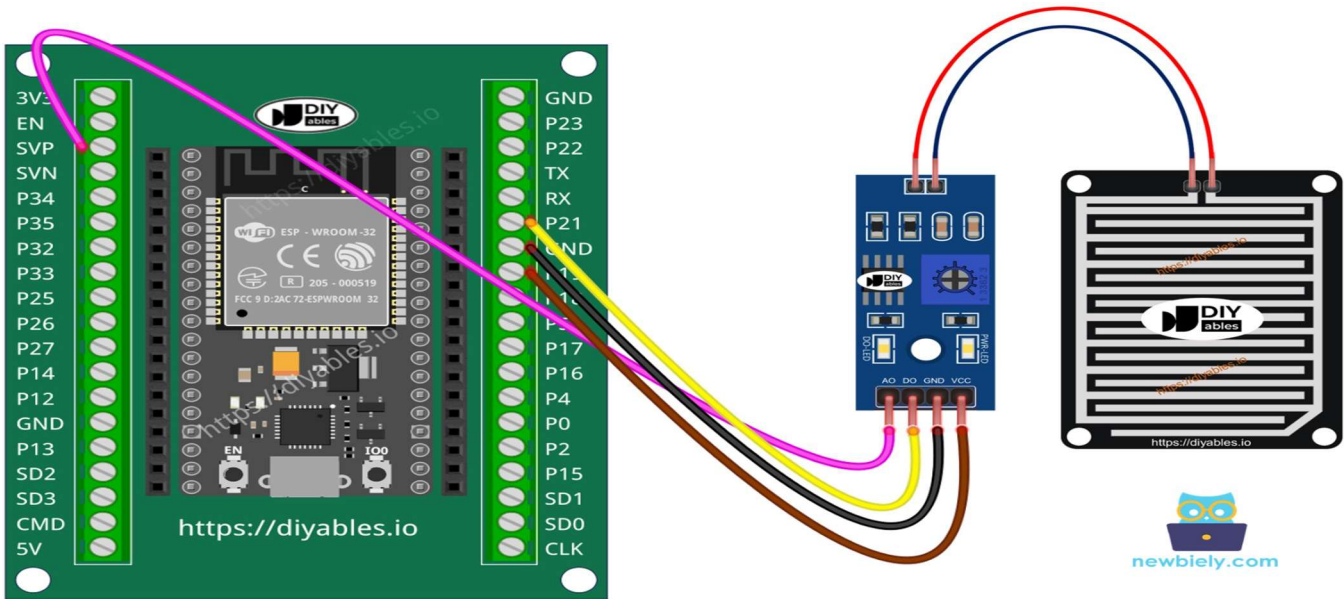


Output Serial Monitor X

Message (Enter to send message to 'ESP32 Wrover Kit (all versions)' on 'COM7')

```
12:37:01.063 -> Humidity: 78.00% | Temperature: 31.30°C ~ 88.34°F
12:37:03.070 -> Humidity: 78.00% | Temperature: 31.30°C ~ 88.34°F
12:37:05.120 -> Humidity: 78.00% | Temperature: 31.30°C ~ 88.34°F
12:37:07.141 -> Humidity: 78.00% | Temperature: 31.30°C ~ 88.34°F
12:37:09.140 -> Humidity: 78.00% | Temperature: 31.30°C ~ 88.34°F
12:37:11.172 -> Humidity: 78.00% | Temperature: 31.30°C ~ 88.34°F
12:37:13.205 -> Humidity: 78.00% | Temperature: 31.30°C ~ 88.34°F
12:37:15.246 -> Humidity: 78.00% | Temperature: 31.30°C ~ 88.34°F
12:37:17.263 -> Humidity: 78.00% | Temperature: 31.30°C ~ 88.34°F
12:37:19.283 -> Humidity: 78.00% | Temperature: 31.30°C ~ 88.34°F
12:37:21.289 -> Humidity: 78.00% | Temperature: 31.30°C ~ 88.34°F
12:37:23.328 -> Humidity: 78.00% | Temperature: 31.30°C ~ 88.34°F
12:37:25.339 -> Humidity: 78.00% | Temperature: 31.30°C ~ 88.34°F
```


3.Connection and Implementation/Demonstration of Rainfall Sensor to ESPWROOM32 with Output:



Output Serial Monitor ✕

Message (Enter to send message to 'ESP32 Wrover Kit (all versions)' on 'COM7')

```
L2:52:02.346 -> The rain is detected
L2:52:03.355 -> The rain is detected
L2:52:04.365 -> The rain is detected
L2:52:05.382 -> The rain is detected
L2:52:06.385 -> The rain is detected
L2:52:07.404 -> The rain is detected
L2:52:08.415 -> The rain is detected
L2:52:09.432 -> The rain is detected
L2:52:10.425 -> The rain is detected
L2:52:11.435 -> The rain is detected
L2:52:12.446 -> The rain is detected
L2:52:13.494 -> The rain is detected
L2:52:14.468 -> The rain is detected
L2:52:15.482 -> The rain is detected
L2:52:16.506 -> The rain is detected
L2:52:17.501 -> The rain is detected
L2:52:18.518 -> The rain is detected
L2:52:19.529 -> The rain is detected
L2:52:20.524 -> The rain is detected
```