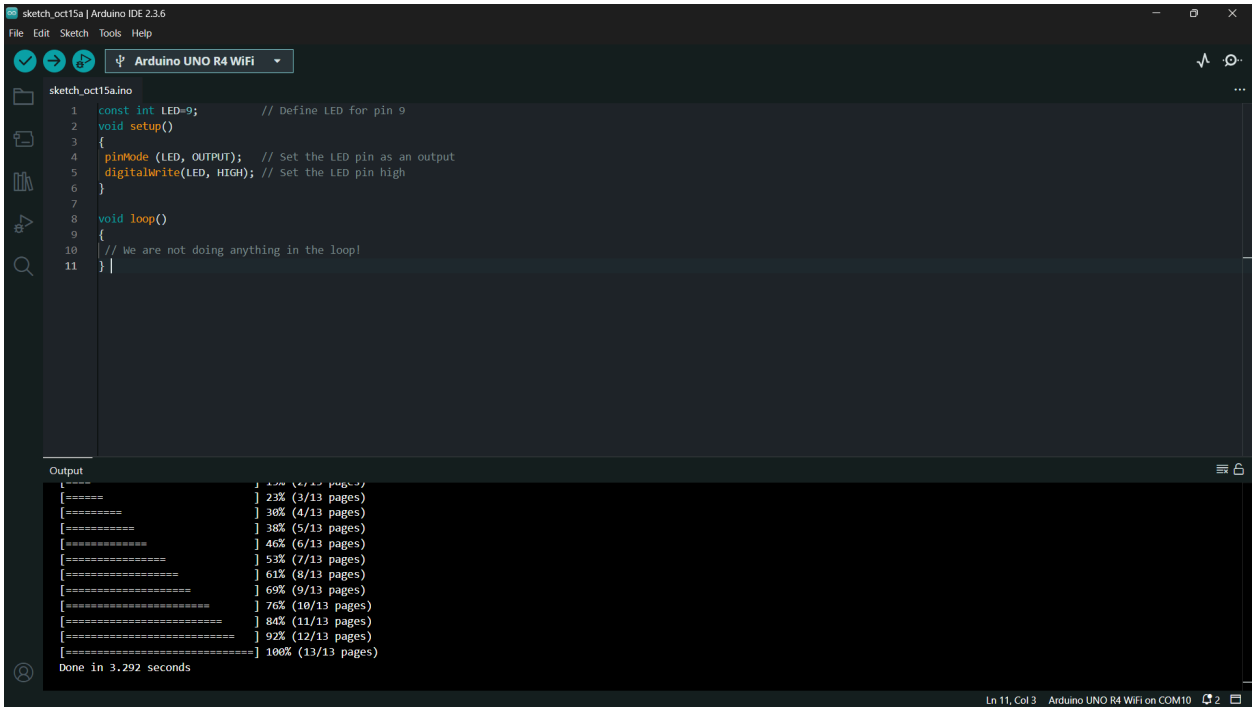
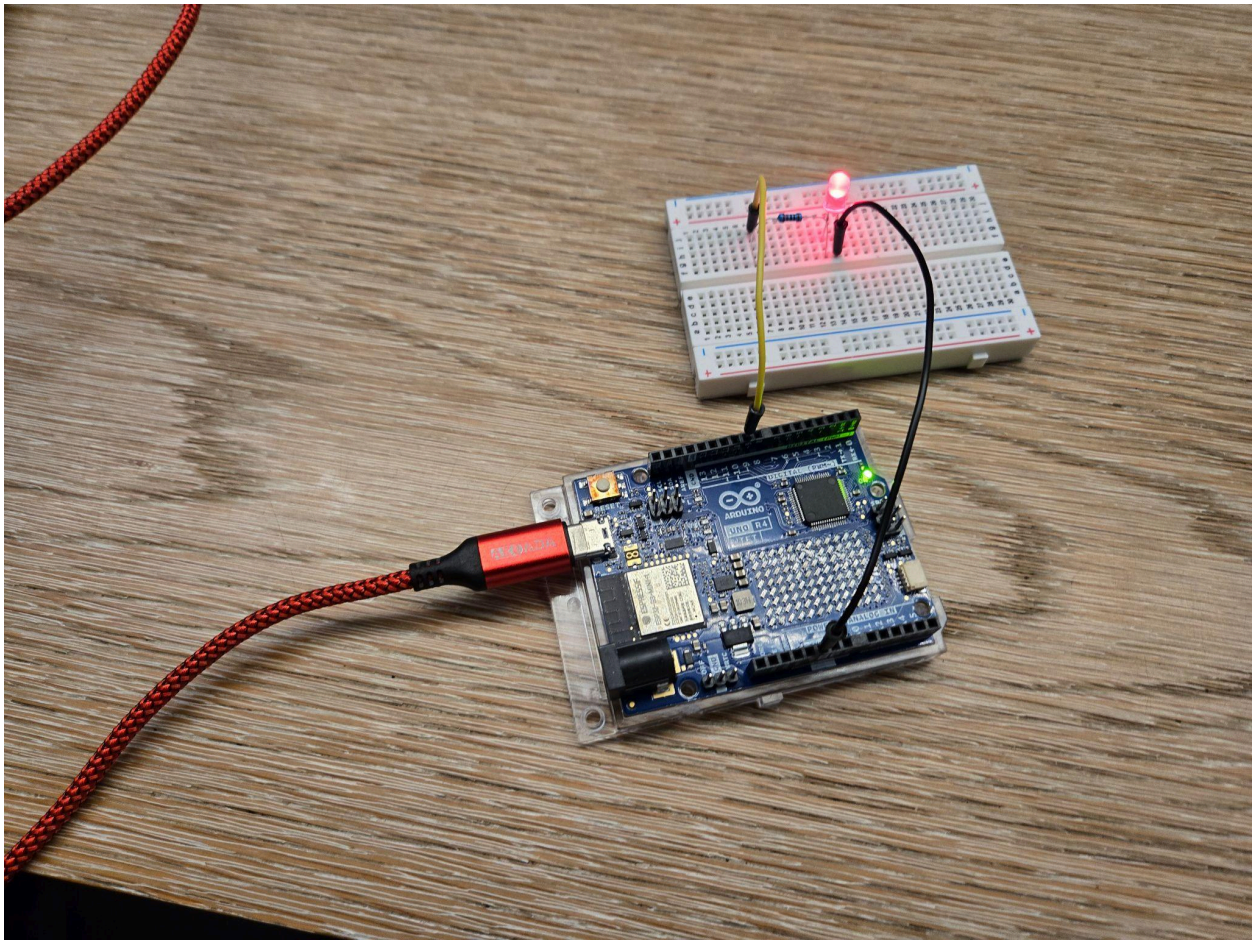
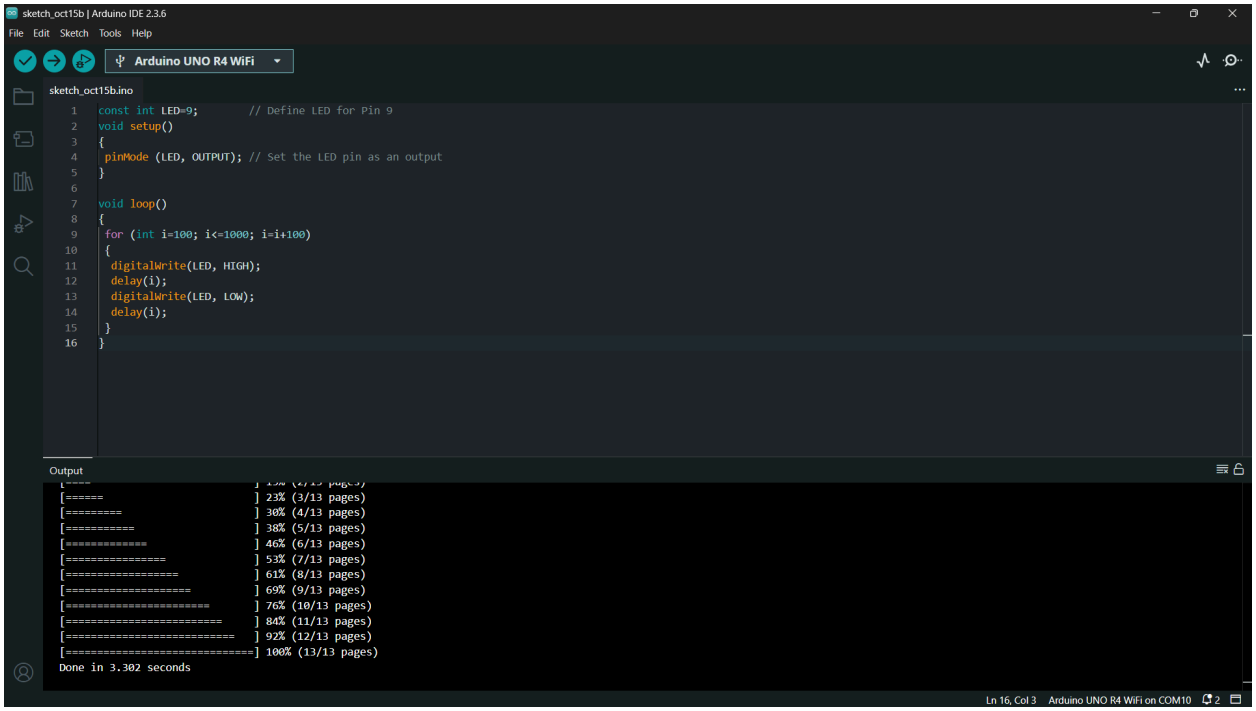
Arduino - Basic Digital Outputs - Physical Kit Version

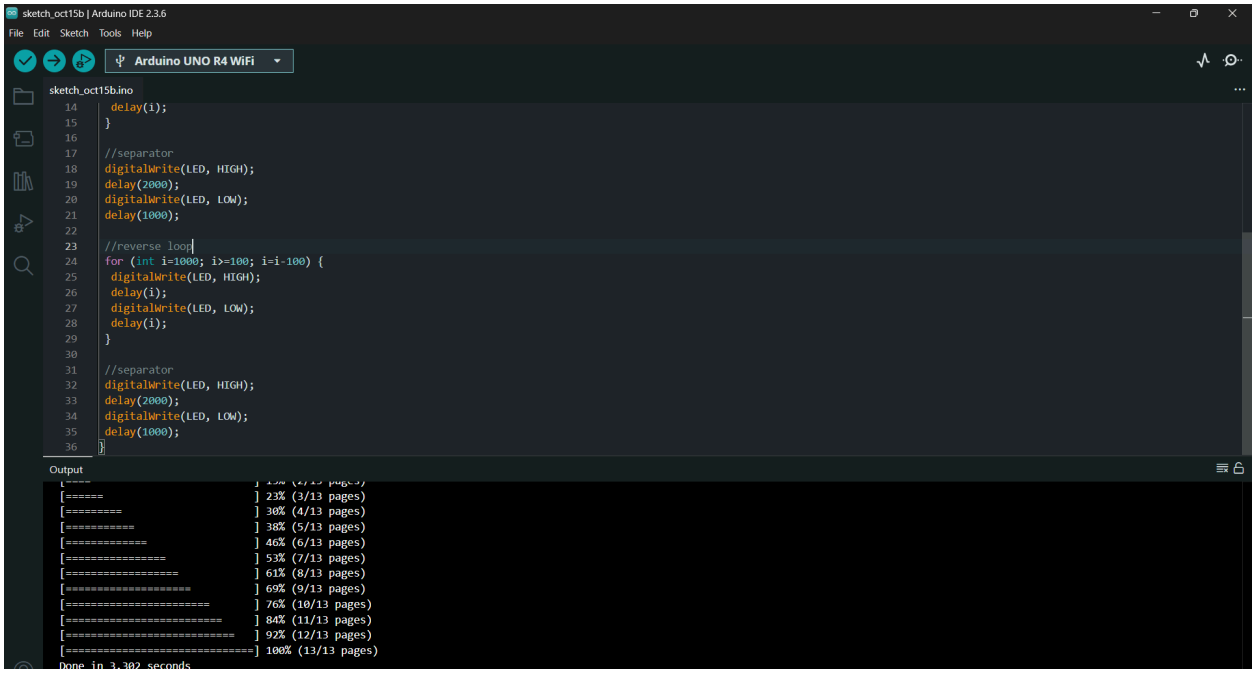
LED




ARDUINO
UNO R4

Blink


sketch_oct15b | Arduino IDE 2.3.6
File Edit Sketch Tools Help
Arduino UNO R4 WiFi
sketch_oct15b.ino
const int LED=9; // Define LED for Pin 9
void setup()
{
pinMode (LED, OUTPUT); // Set the LED pin as an output
}
void loop()
{
for (int i=100; i<=1000; i=i+100)
{
digitalWrite(LED, HIGH);
delay(i);
digitalWrite(LED, LOW);
delay(i);
}
}
Output
[======] 23% (3/13 pages)
[========] 30% (4/13 pages)
[==========] 38% (5/13 pages)
[============] 46% (6/13 pages)
[==============] 53% (7/13 pages)
[================] 61% (8/13 pages)
[==================] 69% (9/13 pages)
[====================] 76% (10/13 pages)
[======================] 84% (11/13 pages)
[========================] 92% (12/13 pages)
[==========================] 100% (13/13 pages)
Done in 3.302 seconds
Ln 16, Col 3 Arduino UNO R4 WiFi on COM10


sketch_oct15b | Arduino IDE 2.3.6
File Edit Sketch Tools Help
Arduino UNO R4 WiFi
sketch_oct15b.ino
delay(i);
}
//separator
digitalWrite(LED, HIGH);
delay(2000);
digitalWrite(LED, LOW);
delay(1000);
//reverse loop
for (int i=1000; i>=100; i=i-100) {
digitalWrite(LED, HIGH);
delay(i);
digitalWrite(LED, LOW);
delay(i);
}
//separator
digitalWrite(LED, HIGH);
delay(2000);
digitalWrite(LED, LOW);
delay(1000);
}
Output
[======] 23% (3/13 pages)
[========] 30% (4/13 pages)
[==========] 38% (5/13 pages)
[============] 46% (6/13 pages)
[==============] 53% (7/13 pages)
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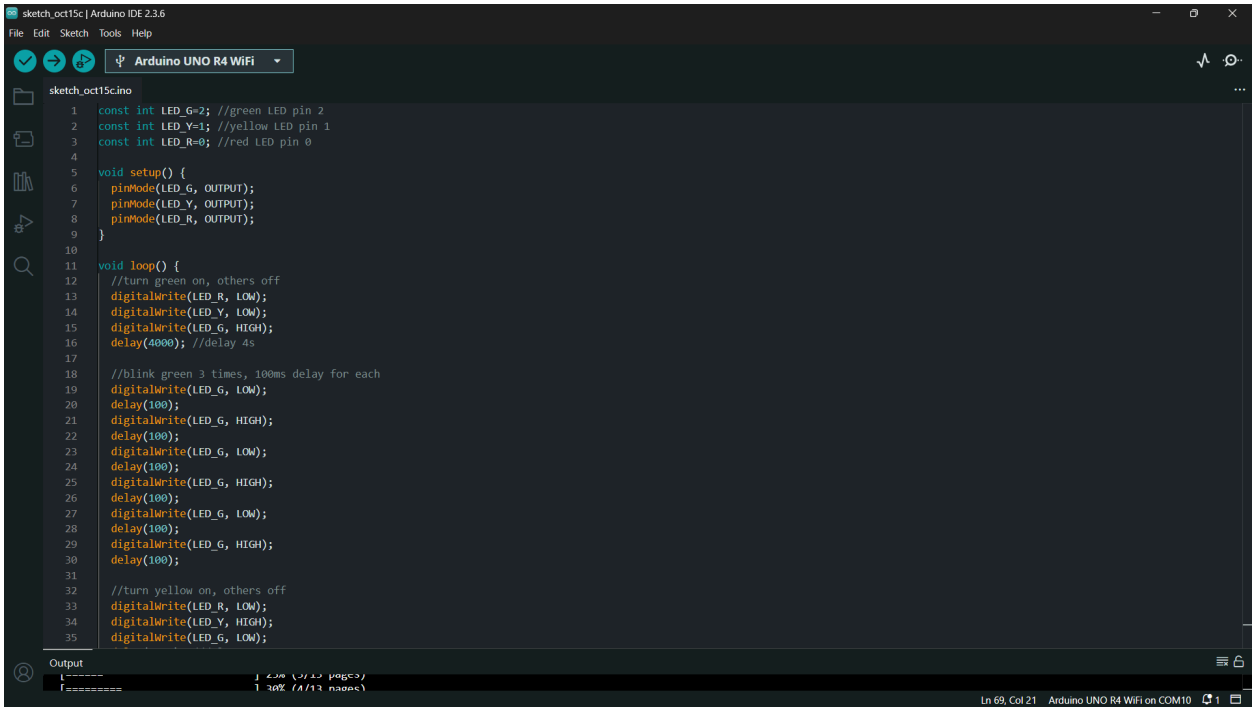
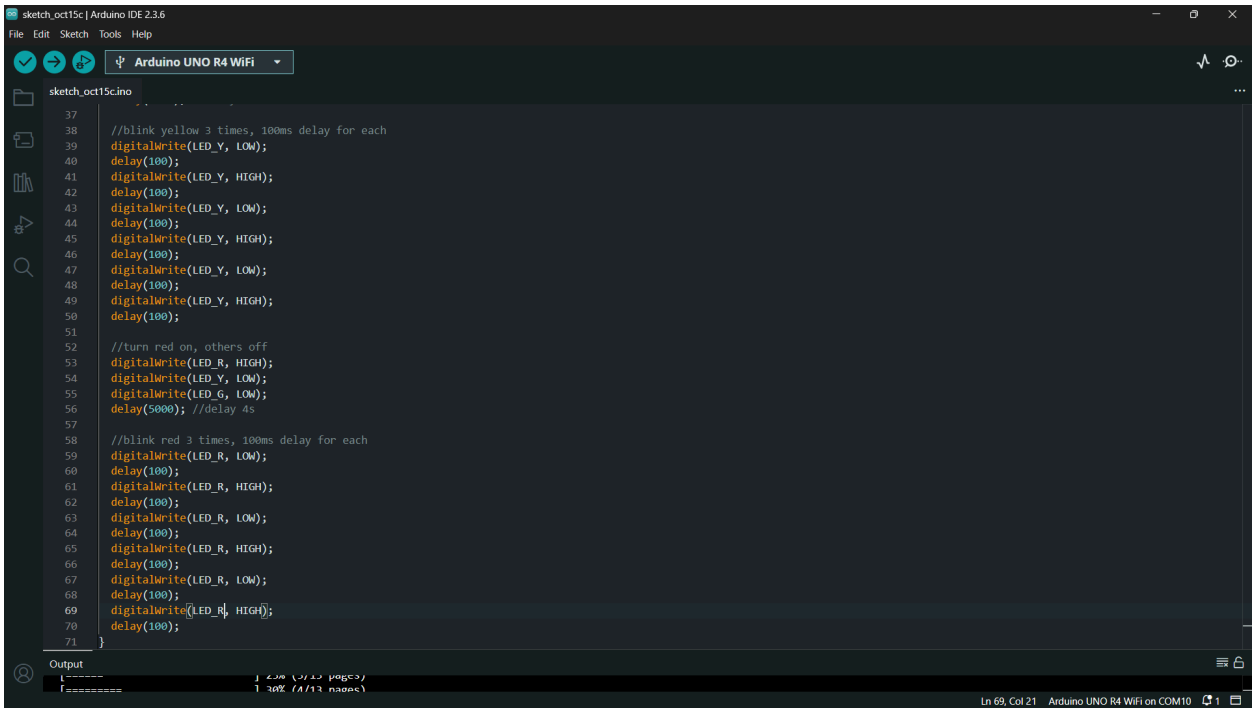
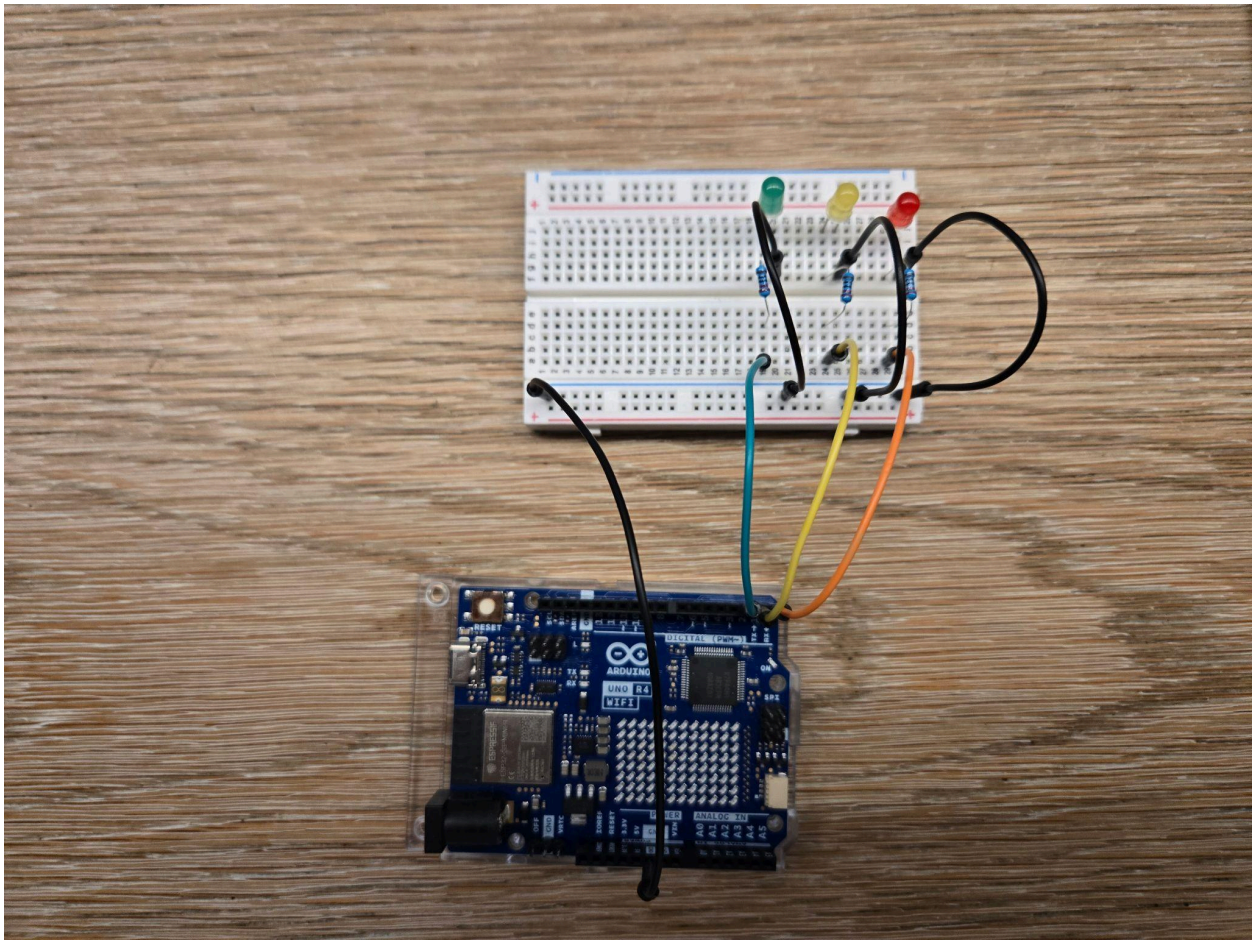
Stoplight


sketch_oct15c | Arduino IDE 2.3.6
File Edit Sketch Tools Help
Arduino UNO R4 WiFi
sketch_oct15c.ino
const int LED_G=2; //green LED pin 2
const int LED_Y=1; //yellow LED pin 1
const int LED_R=0; //red LED pin 0
void setup() {
pinMode(LED_G, OUTPUT);
pinMode(LED_Y, OUTPUT);
pinMode(LED_R, OUTPUT);
}
void loop() {
//turn green on, others off
digitalWrite(LED_R, LOW);
digitalWrite(LED_Y, LOW);
digitalWrite(LED_G, HIGH);
delay(4000); //delay 4s
//blink green 3 times, 100ms delay for each
digitalWrite(LED_G, LOW);
delay(100);
digitalWrite(LED_G, HIGH);
delay(100);
digitalWrite(LED_G, LOW);
delay(100);
digitalWrite(LED_G, HIGH);
delay(100);
digitalWrite(LED_G, LOW);
delay(100);
digitalWrite(LED_G, HIGH);
delay(100);
//turn yellow on, others off
digitalWrite(LED_R, LOW);
digitalWrite(LED_Y, HIGH);
digitalWrite(LED_G, LOW);
Output
Ln 69, Col 21 Arduino UNO R4 WiFi on COM10


sketch_oct15c | Arduino IDE 2.3.6
File Edit Sketch Tools Help
Arduino UNO R4 WiFi
sketch_oct15c.ino
//blink yellow 3 times, 100ms delay for each
digitalWrite(LED_Y, LOW);
delay(100);
digitalWrite(LED_Y, HIGH);
delay(100);
digitalWrite(LED_Y, LOW);
delay(100);
digitalWrite(LED_Y, HIGH);
delay(100);
digitalWrite(LED_Y, LOW);
delay(100);
digitalWrite(LED_Y, HIGH);
delay(100);
//turn red on, others off
digitalWrite(LED_R, HIGH);
digitalWrite(LED_Y, LOW);
digitalWrite(LED_G, LOW);
delay(5000); //delay 4s
//blink red 3 times, 100ms delay for each
digitalWrite(LED_R, LOW);
delay(100);
digitalWrite(LED_R, HIGH);
delay(100);
digitalWrite(LED_R, LOW);
delay(100);
digitalWrite(LED_R, HIGH);
delay(100);
digitalWrite(LED_R, LOW);
delay(100);
digitalWrite(LED_R, HIGH);
delay(100);
}
Output
Ln 69, Col 21 Arduino UNO R4 WiFi on COM10


RESET
ARDUINO
UNO R4
WIFI
DIGITAL (PWM~)
ON
SPI
POWER
ANALOG IN
A0
A1
A2
A3
A4
A5