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Sub: IOT (Internet of Things)

Branch: CBA

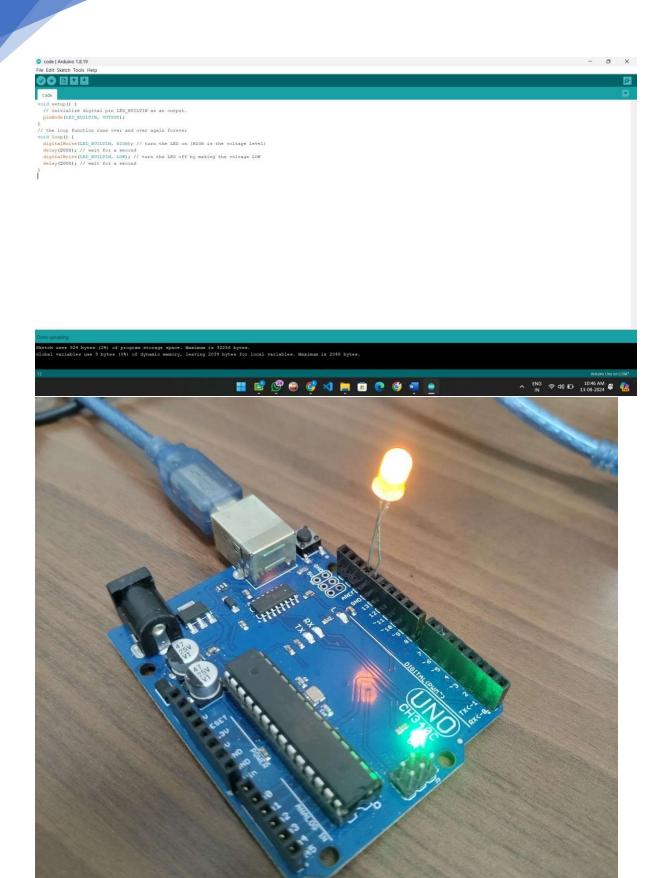
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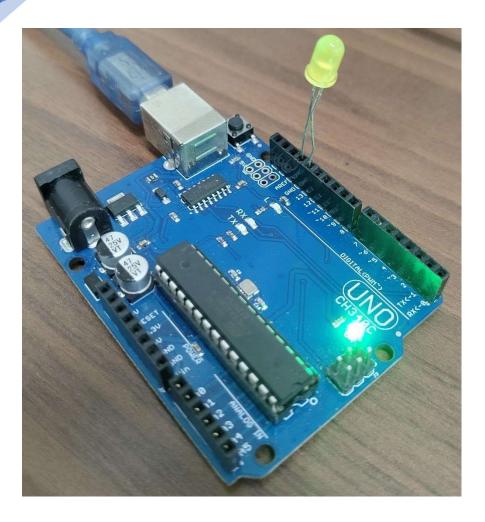
1. Interfacing of LED with Arduino and write a code for LED blinking.

Parts Needed:

- (1) Arduino Uno
- (1) USB A-to-B Cable
- (1) LED 5mm CODE:

```
void setup() {
  pinMode(LED_BUILTIN, OUTPUT);
}
void loop() { digitalWrite(LED_BUILTIN, HIGH); delay(2000);
digitalWrite(LED_BUILTIN, LOW); delay(2000);
}
```



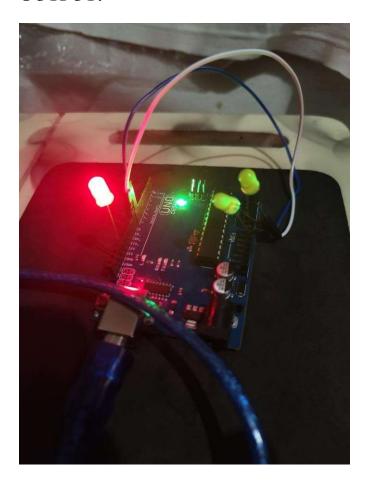


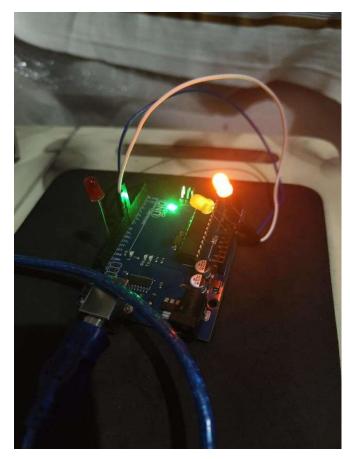
2. Interfacing 3 LED's with Arduino and write a code for traffic signals.

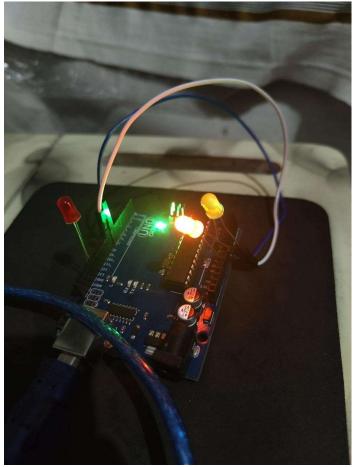
Parts Needed:

```
(1) Arduino Uno
(1) USB A-to-B Cable
(1) Breadboard – Half Size
(3) LED 5mm (2) Jumper Wires CODE:
int redLight = 13; int yellowLight = 7; int greenLight = 8; void setup() {
 pinMode(redLight, OUTPUT); pinMode(yellowLight, OUTPUT);
pinMode(greenLight, OUTPUT);
void loop() { digitalWrite(redLight, HIGH); // Turn on red light delay(500);
// Wait for 5 seconds digitalWrite(redLight, LOW); // Turn off red light
digitalWrite(yellowLight, HIGH); // Turn on yellow light
                         // Wait for 2 seconds digitalWrite(yellowLight,
 delay(2000);
LOW); // Turn off yellow light digitalWrite(greenLight, HIGH); // Turn on
green light
                       // Wait for 5 seconds digitalWrite(greenLight, LOW);
delay(500);
// Turn off green light
}
```

OUTPUT:







>> Step 1: navigate cloudant and Create cloudant service I created by name Cloudant-Tushar-Practical8 and after created lunch dashboard.