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Sub: IoT

Practical – 1[Batch-71]

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

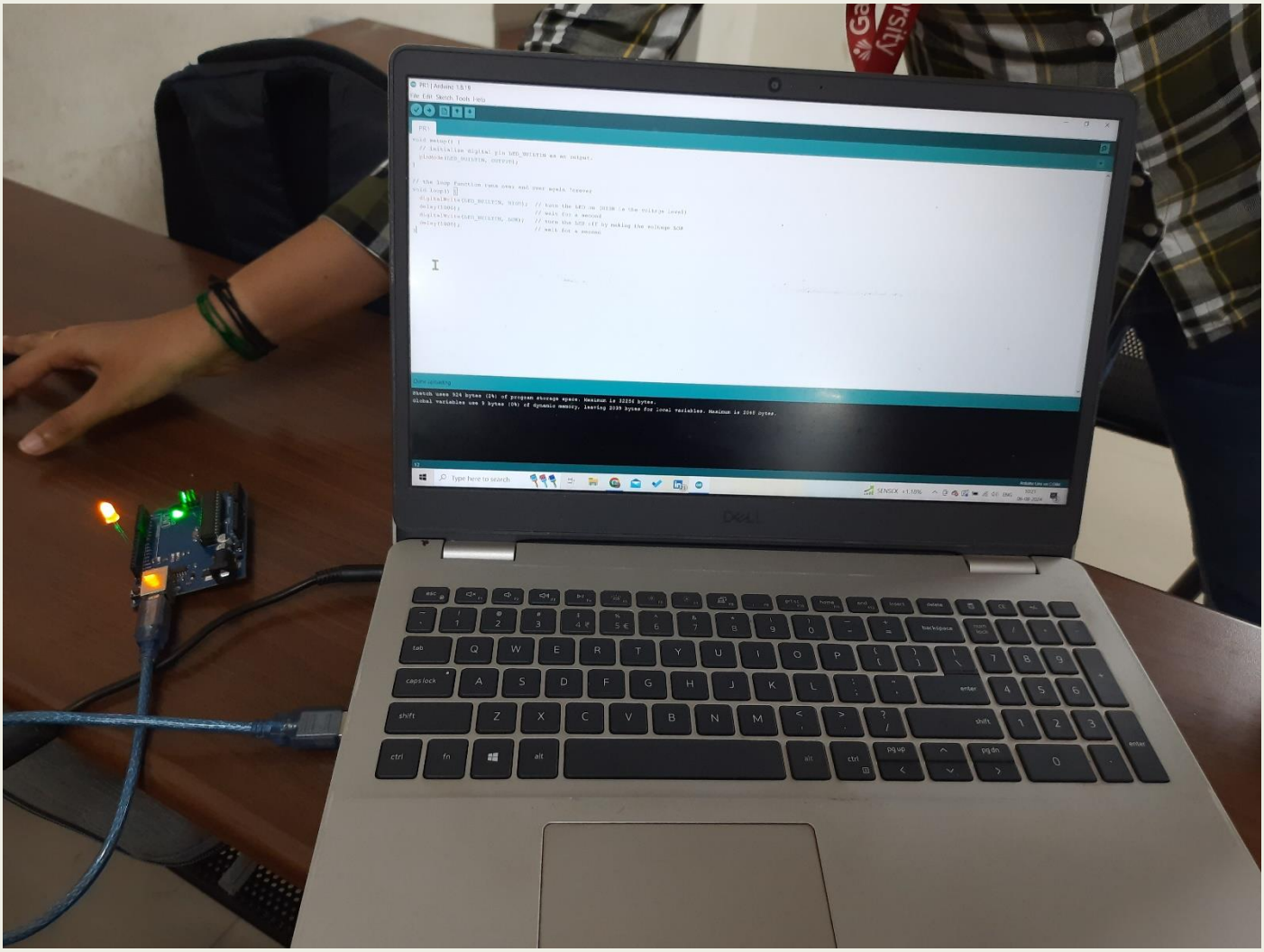
Parts needed

1) Arduino uno

2) USB E2B

3) Yellow LED

```
void setup() {
// initialize digital pin LED_BUILTIN as an output.
pinMode(LED_BUILTIN, OUTPUT);
}
// the loop function runs over and over again forever
void loop() {
digitalWrite(LED_BUILTIN, HIGH); // turn the LED on (HIGH is the voltage level)
delay(2000); // wait for a second
digitalWrite(LED_BUILTIN, LOW); // turn the LED off by making the voltage LOW
delay(2000); // wait for a second
}
```



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

Parts needed

1) Arduino uno

2) USB E2B

3) 2-Yellow LED

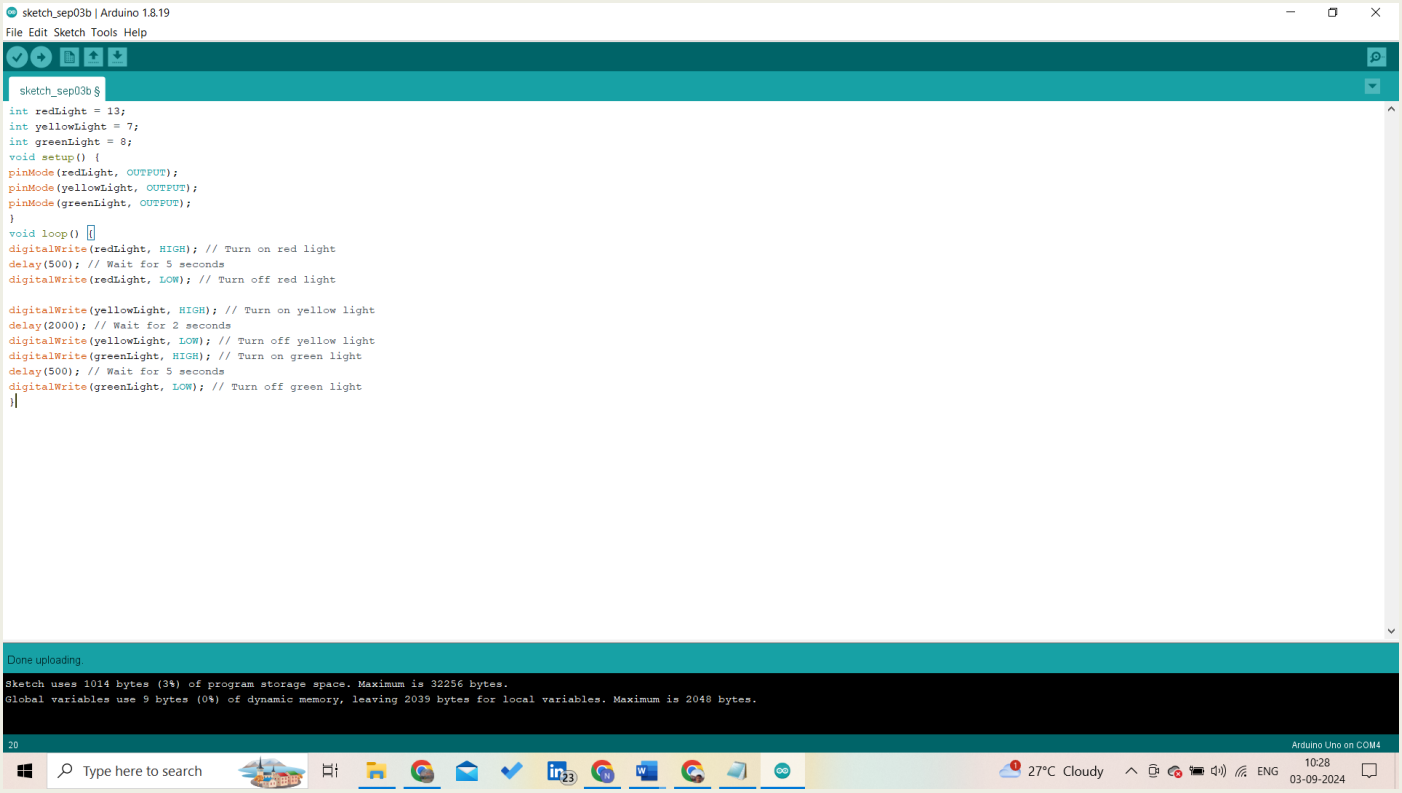
4) 1-red LED

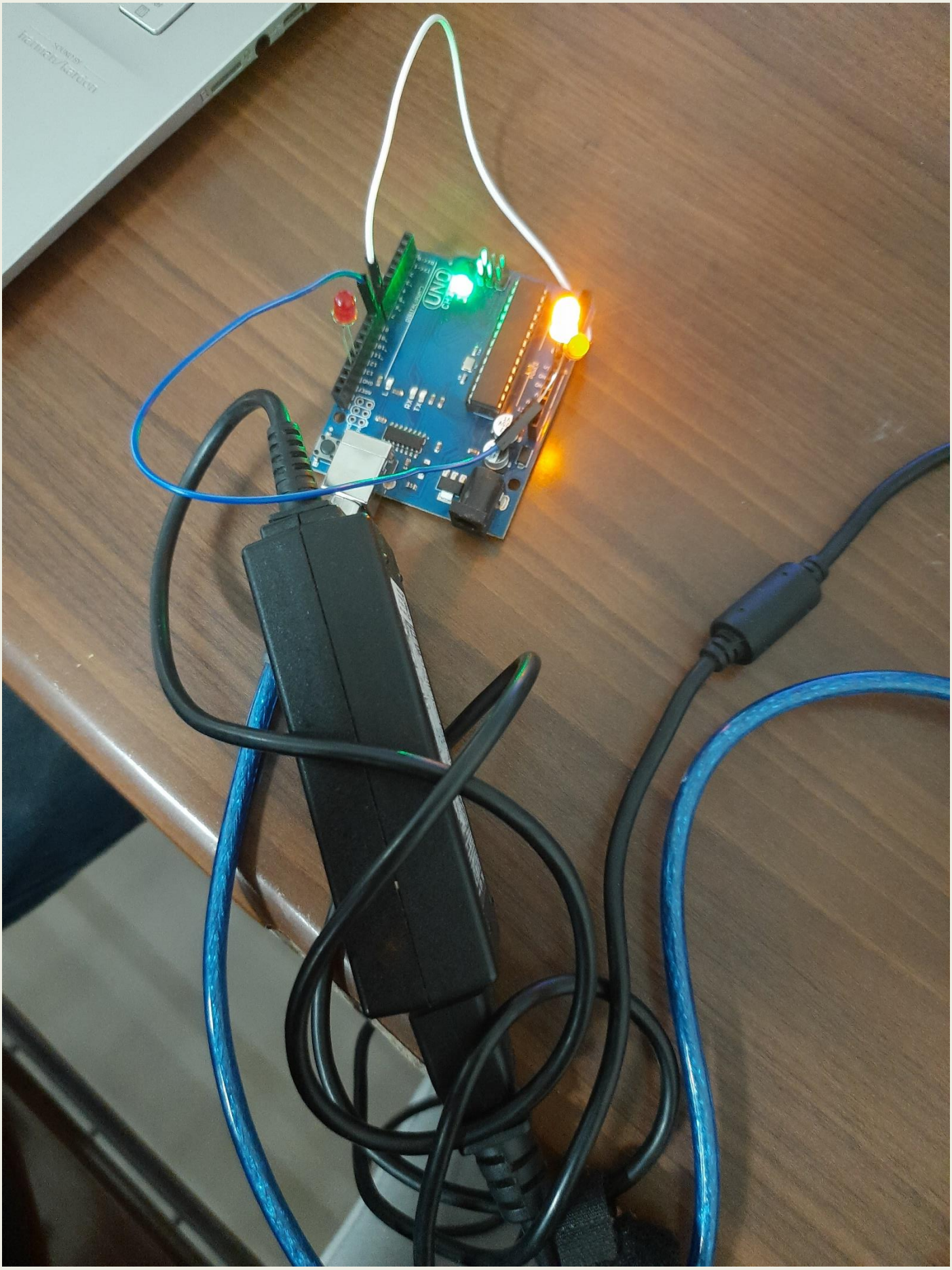
5) Jumper wires

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
delay(2000); // Wait for 2 seconds
digitalWrite(yellowLight, LOW); // Turn off yellow light
digitalWrite(greenLight, HIGH); // Turn on green light
delay(500); // Wait for 5 seconds
digitalWrite(greenLight, LOW); // Turn off green light
}
```





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