EC 2010 : Computer Programming

Arduino Lab

MALHARA R.M.Y.S

2022/E/126

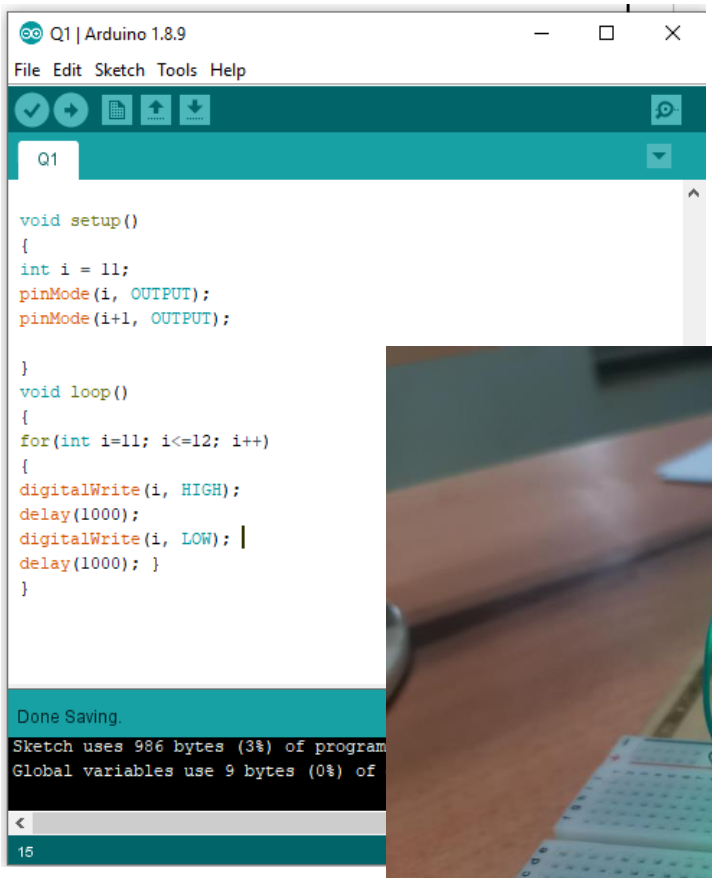
GROUP: C15

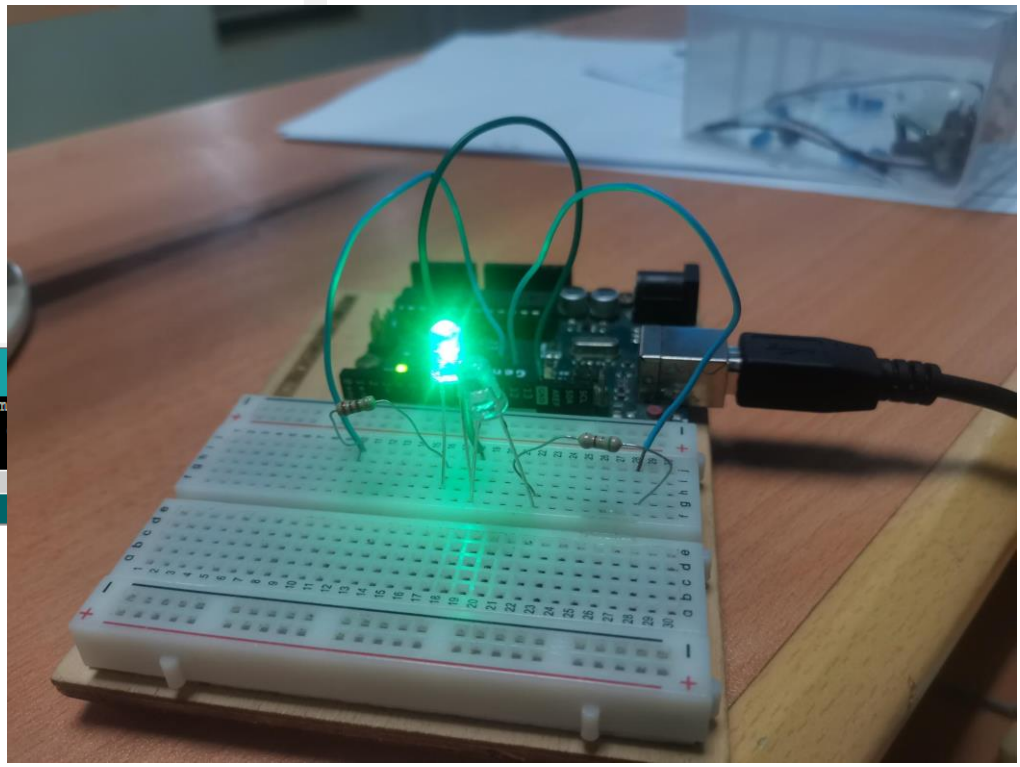
EC2010

2023/12/14

Exercise 01 :-

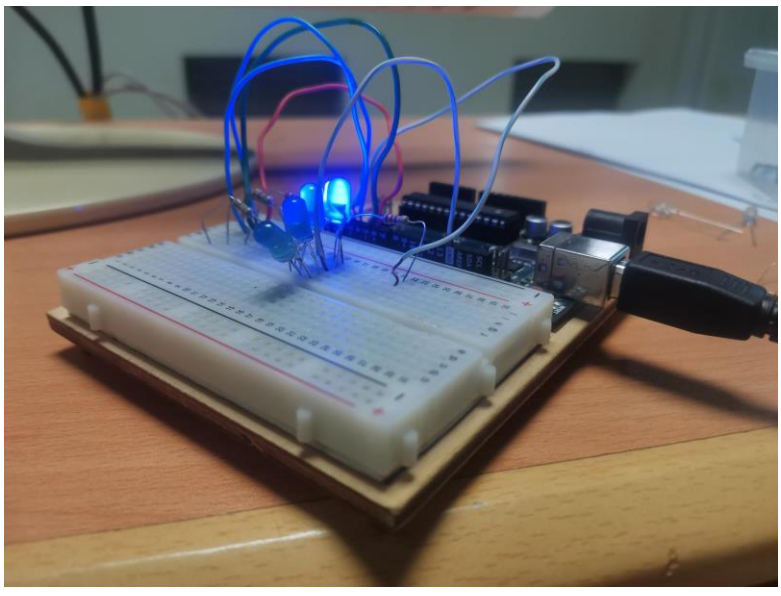
```
void setup()
{
int i = 11;
pinMode(i, OUTPUT);
pinMode(i+1, OUTPUT);

}
void loop()
{
for(int i=11; i<=12; i++)
{
digitalWrite(i, HIGH);
delay(1000);
digitalWrite(i, LOW);
delay(1000); }
}
```





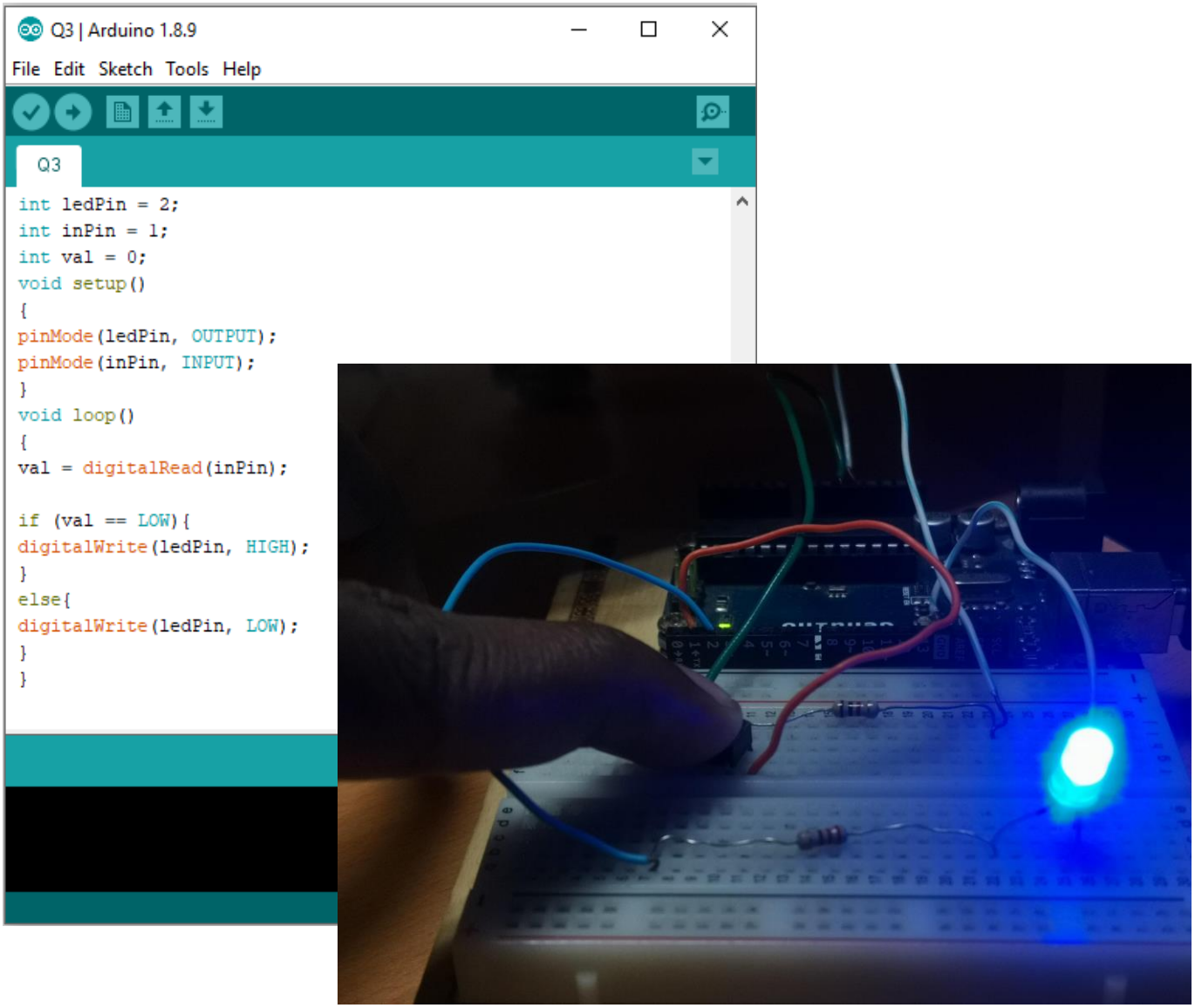
Exercise 02 :-

```
void setup()
{
for(int i=2; i<7; i++)
{
pinMode(i, OUTPUT);
}
}
void loop()
{
 for(int i=2; i<7; i++)
 {
 digitalWrite(i, HIGH);
 delay(20);
 digitalWrite(i+1, HIGH);
 delay(20);
 digitalWrite(i+2, HIGH);
 delay(20);
 digitalWrite(i, LOW);
 delay(20);
 digitalWrite(i+1, LOW);
 }

 for(int i=7; i>2; i--)
 {
 digitalWrite(i, HIGH);
 delay(20);
 digitalWrite(i-1, HIGH);
 delay(20);
 digitalWrite(i-2, HIGH);
 delay(20);
 digitalWrite(i, LOW);
 delay(20);
 digitalWrite(i-1, LOW);
 }
}
```



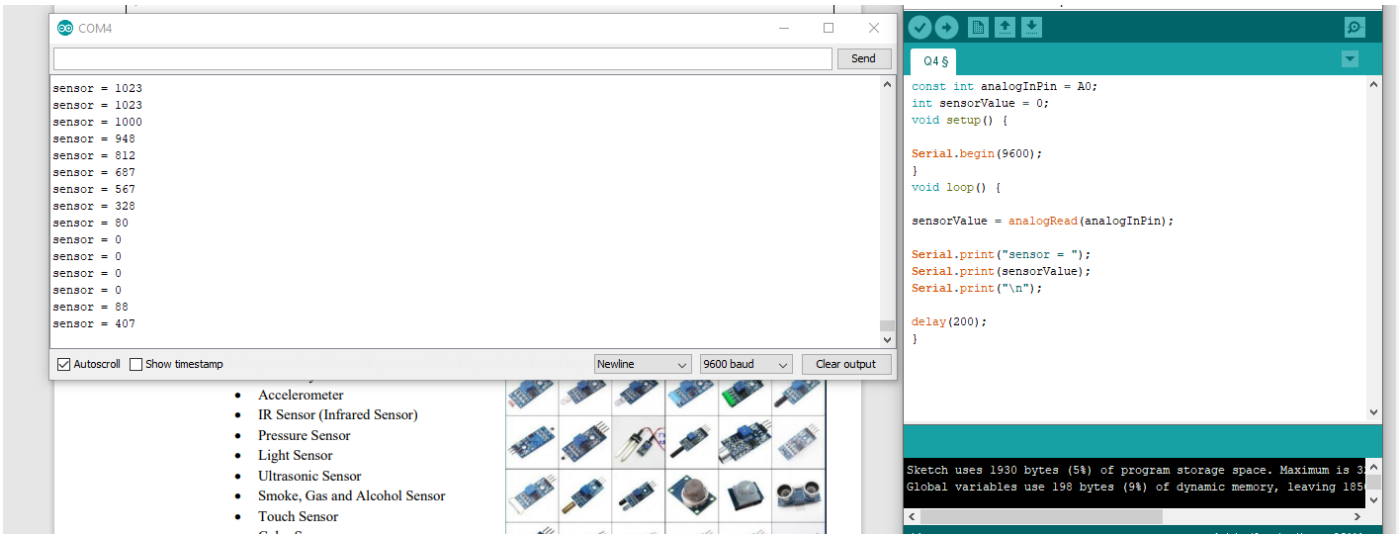
Exercise 03 :-

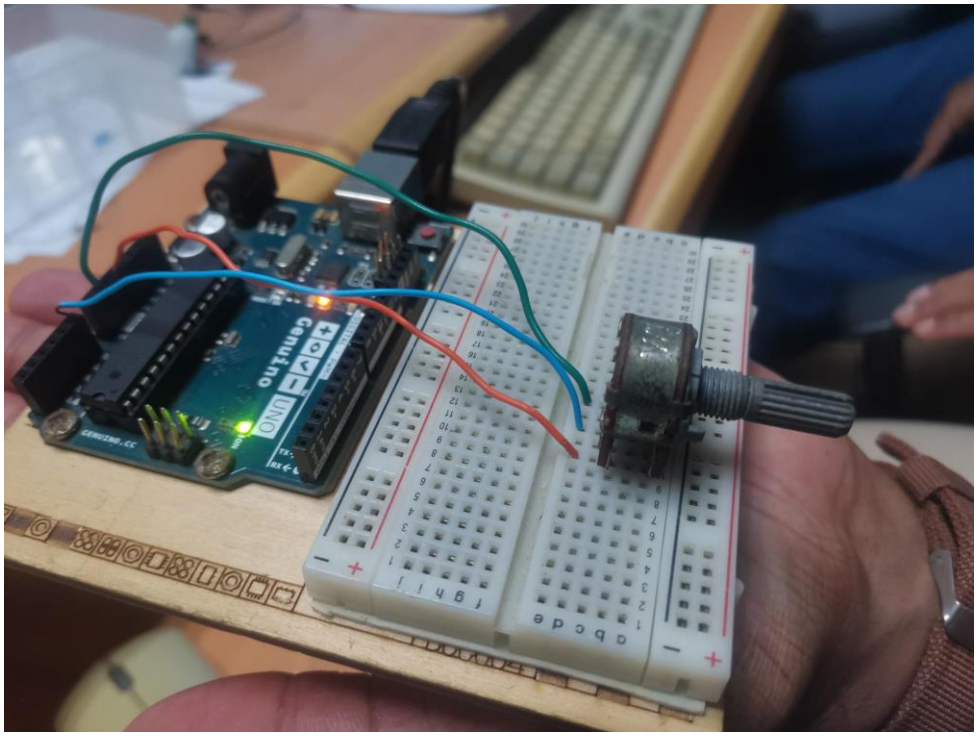
```
int ledPin = 2;
int inPin = 1;
int val = 0;
void setup()
{
pinMode(ledPin, OUTPUT);
pinMode(inPin, INPUT);
}
void loop()
{
val = digitalRead(inPin);

if (val == LOW){
digitalWrite(ledPin, HIGH);
}
else{
digitalWrite(ledPin, LOW);
}
}
```



Exercise 04 :-

```
const int analogInPin = A0;
int sensorValue = 0;
void setup() {

Serial.begin(9600);
}
void loop() {

sensorValue = analogRead(analogInPin);

Serial.print("sensor = ");
Serial.print(sensorValue);
Serial.print("\n");

delay(200);
}
```





Exercise 05 :-

```
int inPin = 1;
int ledPin=2;
int val = 0;
void setup()
{
pinMode(ledPin, OUTPUT);
pinMode(inPin, INPUT);
}


void loop() {

val = digitalRead(inPin);

if (val == HIGH){
digitalWrite(ledPin, HIGH);

delay(500);

}else{
digitalWrite(ledPin, LOW); }

}
```