



1.1

INTRODUCE TO THE ARDUINO

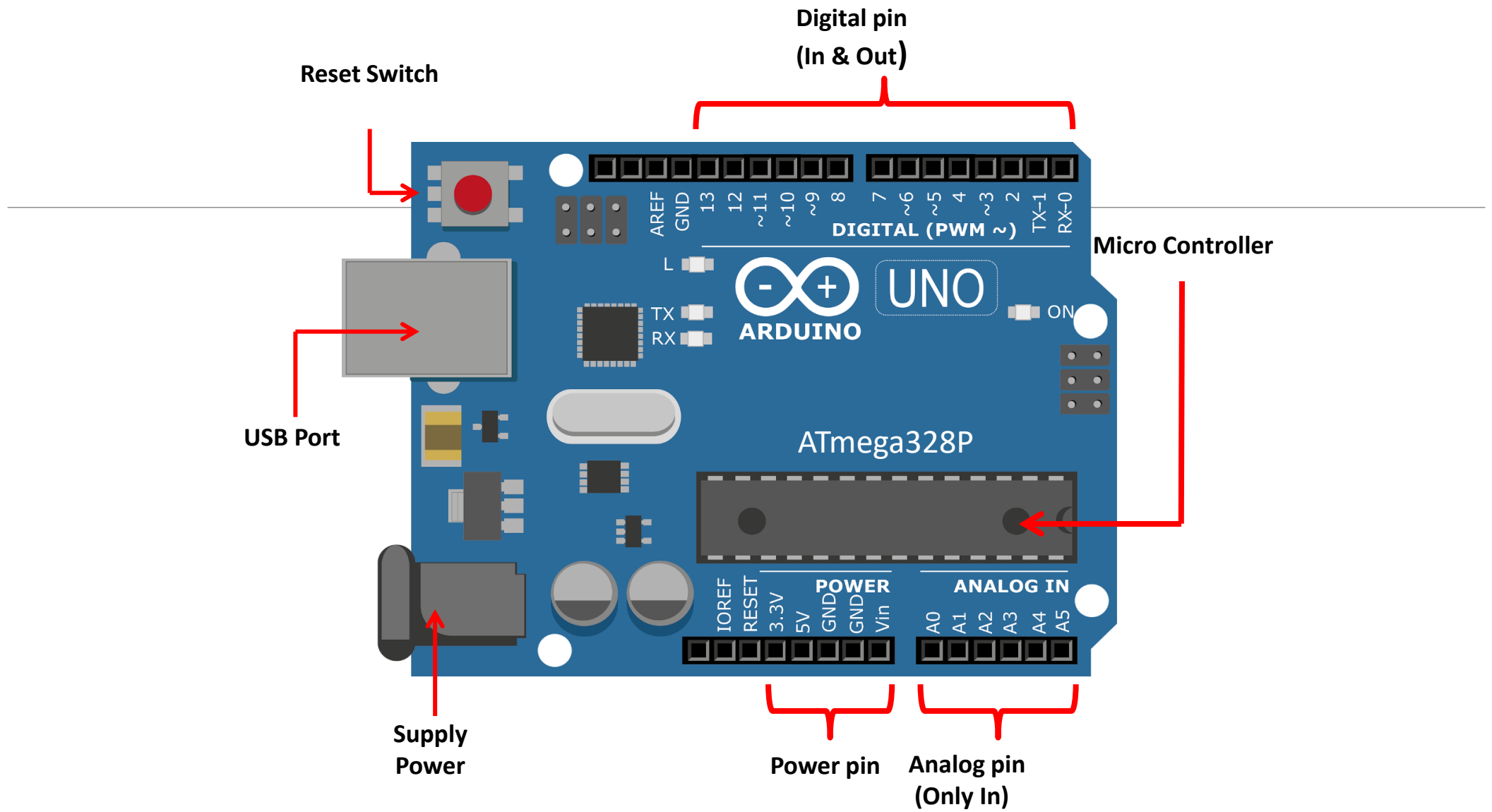


Content





























1. Arduino board
2. Basic electronic devices
3. Arduino IDE
4. The first program “Hello World”

Arduino board

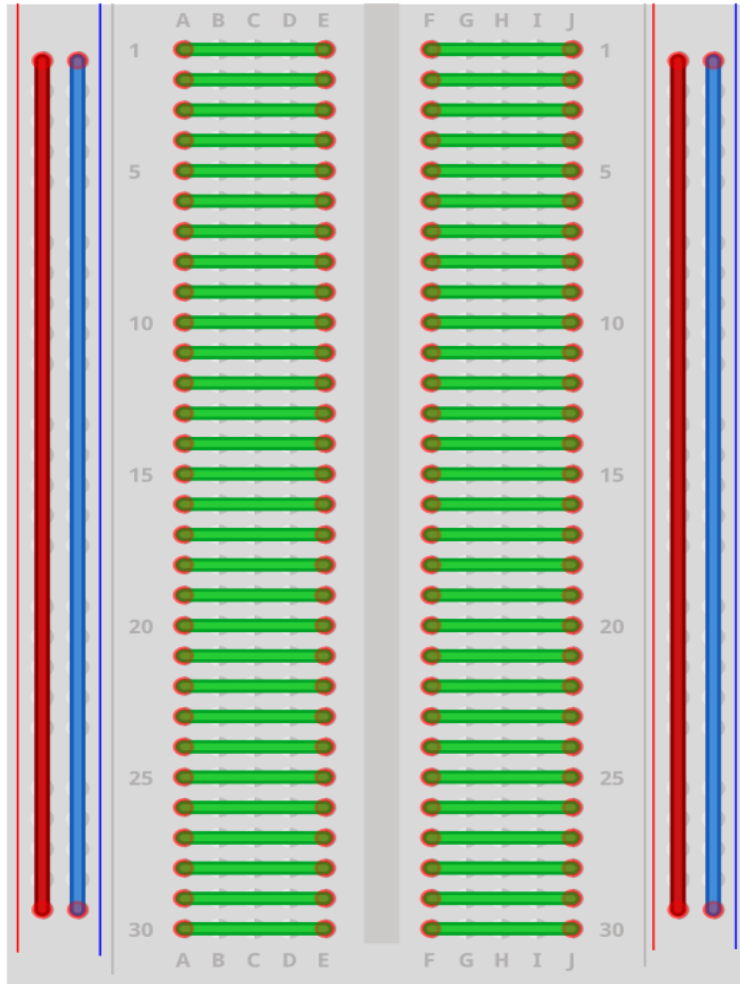




Electronic devices

					
Arduino UNO R3	Cable (1 m)	Bread Board	Jumper Wire M-M	Jumper Wire M-F	220Ω Resistance
					
10KΩ Resistance	Battery Adaptor	LED (15 ea)	RGB LED	Push Button (8 ea)	5V Active buzzer
					
5V Passive buzzer	PIR Motion Sensor	CdS cell	1602 LCD	10K Potentiometer	Temp. & Humid Sensor
					
Supersonic sensor	Segment(cathode)	Servo-motor	1N4001 diode	2N2222 transistor	Shift Register 74HC595
					
HC-06 Bluetooth	5V Step Motor	ULN2003A module	Moisture sensor	Sound sensor	Real time clock module
					
5V Relay module	4x4 keypad module	Case	Manual book		

Test board – Bread board



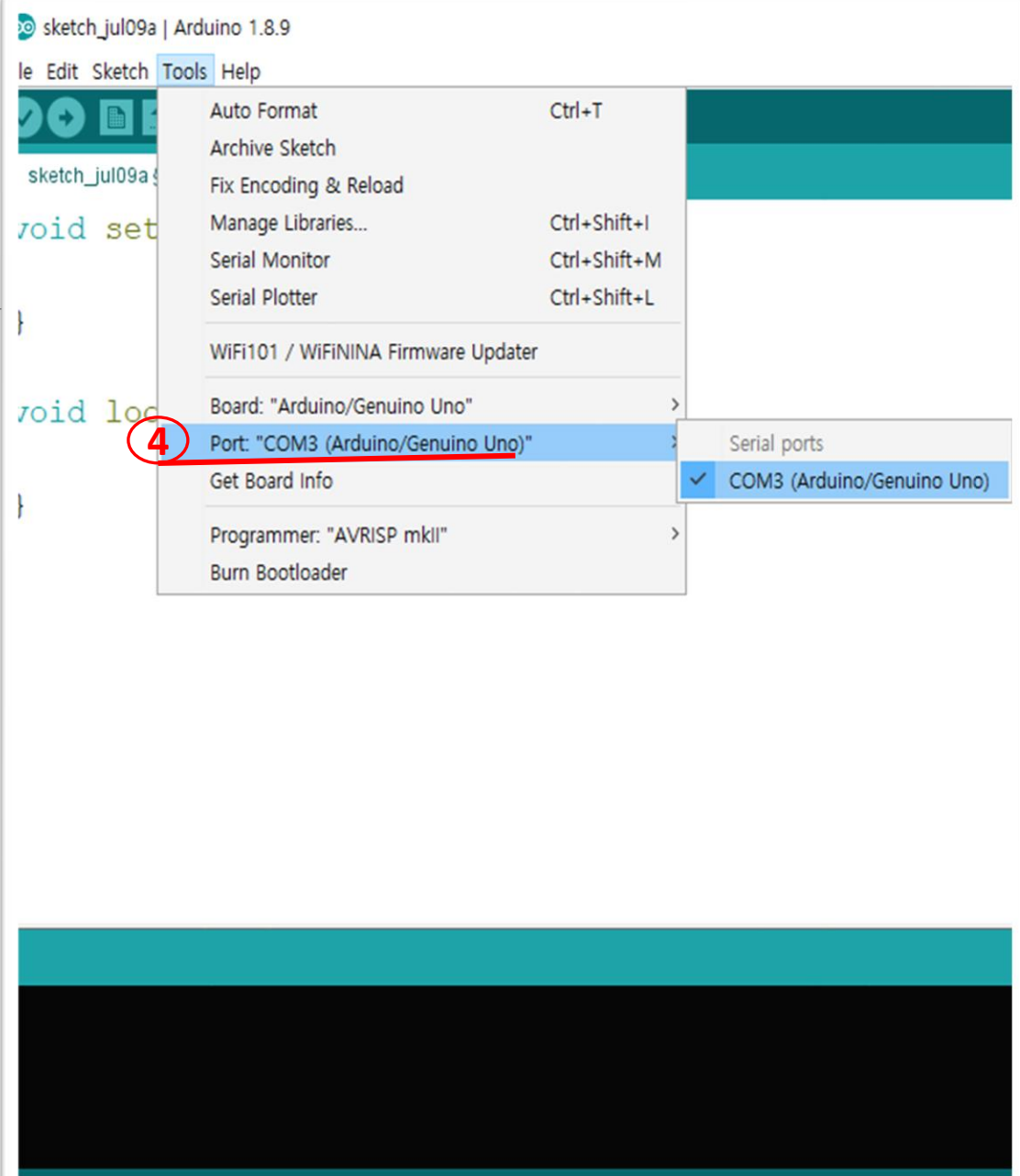
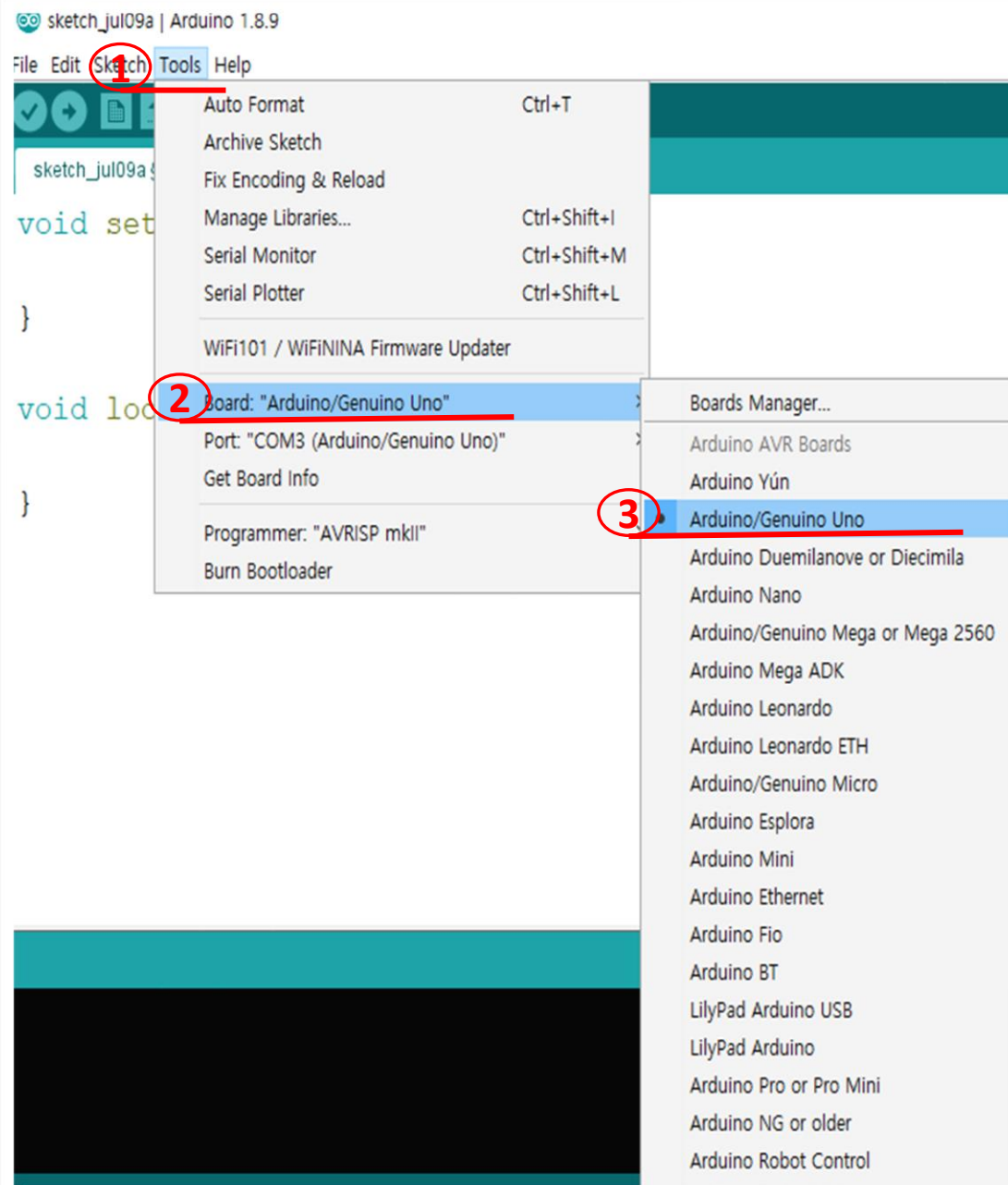
< Bread Board >

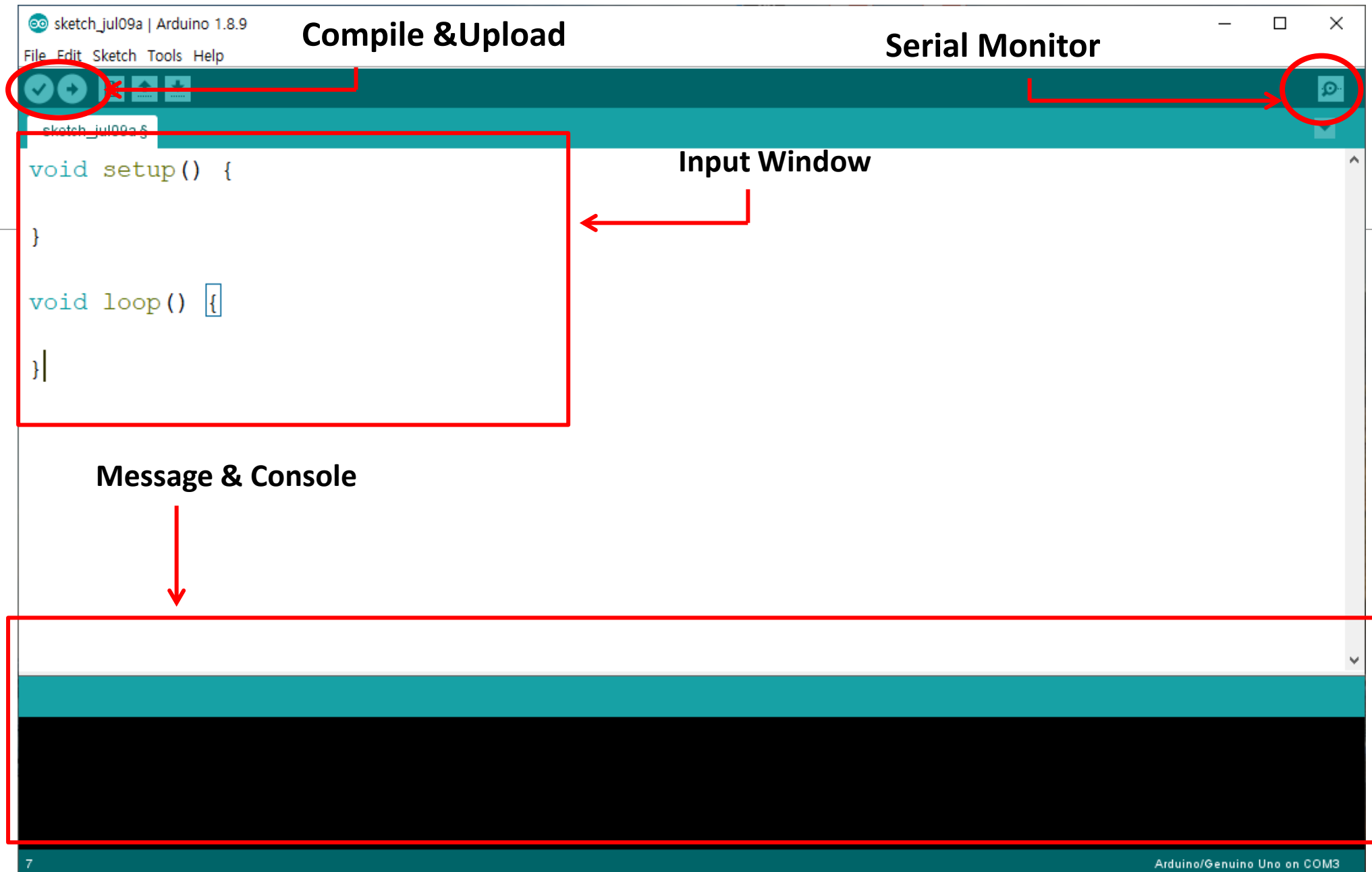


< Inside of Bread Board >



Arduino IDE





```
> Hello world
```

The First Program

```
int a = 30;

void setup() {
    Serial.begin(9600);           //start Serial communication, Transmission speed is 9600
}

void loop() {
    // put your main code here, to run repeatedly:
    Serial.println(a);           //print out the value of variable a
    Serial.println("Hello World"); //print out Hello World
    delay(1000);
}
```