//SketchAr040FlashLEDpin8OnOnOff

int Led = 8;

// The declaration of a integer variable 'Led'

// that contains the number of the port

// to which the voltage is applied.

int delay3000=3000,delay500=500;

// This sketch makes the LED Flash

void setup()

// The mandatory procedure 'setup()' is executed once at the programm start.

{

pinMode(Led, OUTPUT);

// The function 'PinMode(PortNumber,State)'

// sets the type 'State' ('OUTPUT' or 'INPUT') to the digital port 'PortNumber'

}

void loop()

// The mandatory procedure 'loop()' is execuded cyclically after the procedure 'setup()' execution

{

digitalWrite(Led, HIGH); // the state 'switched on' is set 0n the digital port 'Led'

// The command digitalWrite(PortNumber,State) is used

// to 'switch on' or to 'switch off' the voltage on a didital port

// The first argument('PortNumber') is the number of the digital port,

// the second argument('State') is the state ('switched on' (HIGH) or 'switched off' (LOW)),

// to which the digital port should be set.

delay(delay3000);

// The command delay(time) is used for the waiting between the actions.

// The argument ('time') is the time (in milliseconds) of the waiting

digitalWrite(Led, LOW); // the state 'switched off' is set 0n the digital port 'Led'

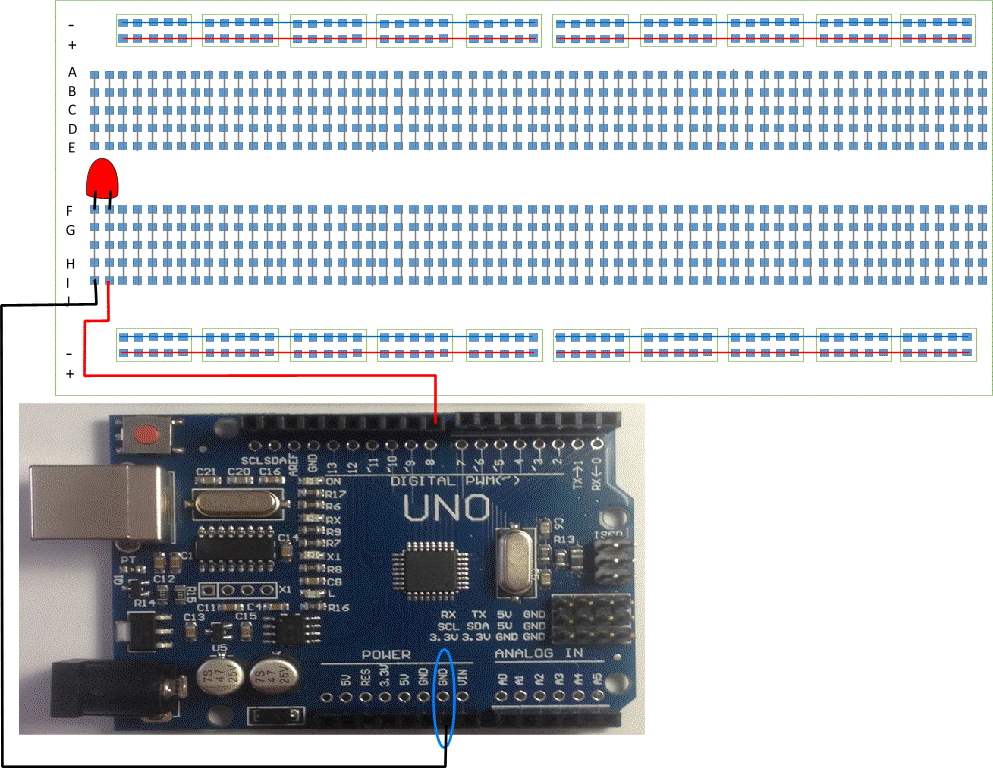
delay(delay500);

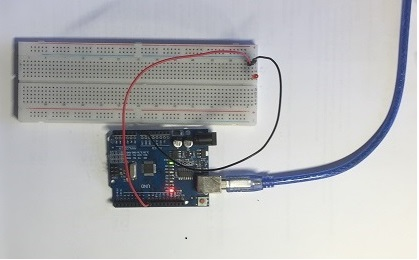
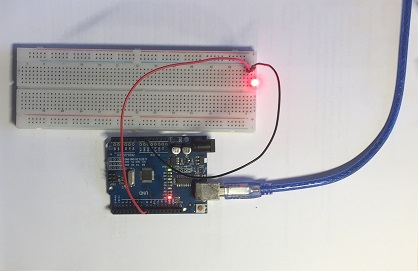
}

**The wires used for the check the applied voltage**

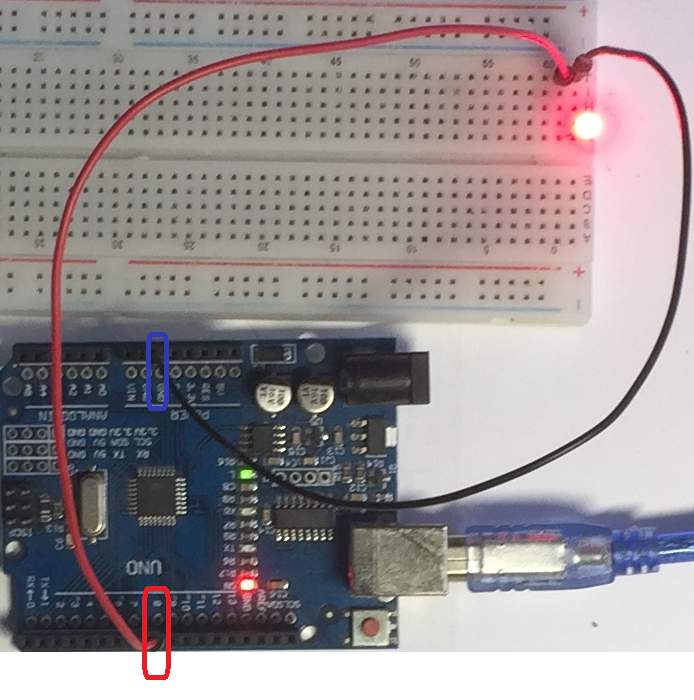
Black wire – the GND (POWER, 2nd from right)

Red wire – the port 8 (DIGITAL PWM, 9th from right)





Execution: The LED on the plate is switched on and the voltage of 5V between GND and the Pin8 is set to 3 seconds. Thereafter the LED turns out for the short time. For this short time no voltage between GND and Pin8 is set.



The voltage between GND and Pin8 could be measured by a multimeter.