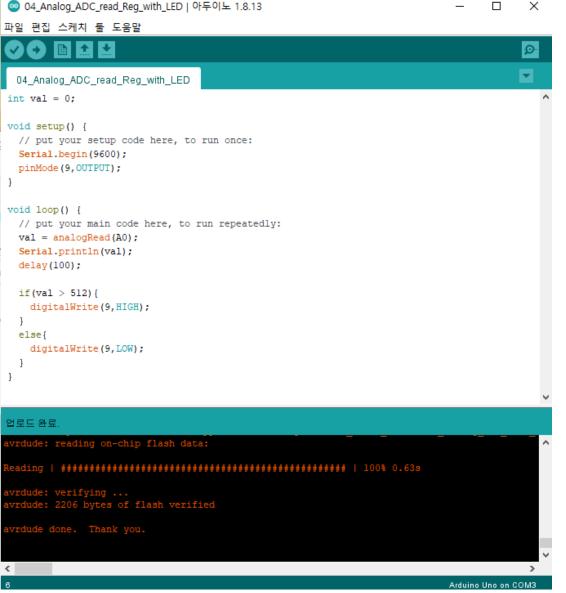


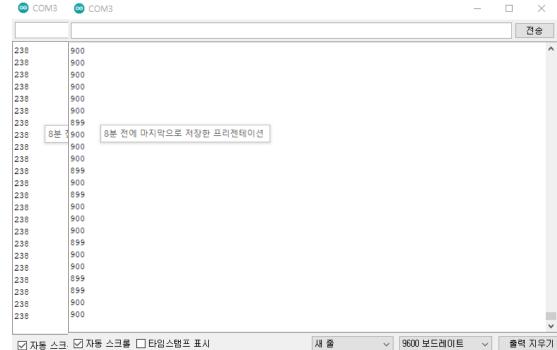
Arduino – HW2

임베디드스쿨1기 Lv1과정 2020. 09. 17 박성환

04_Potentiometer with LED ON_OFF

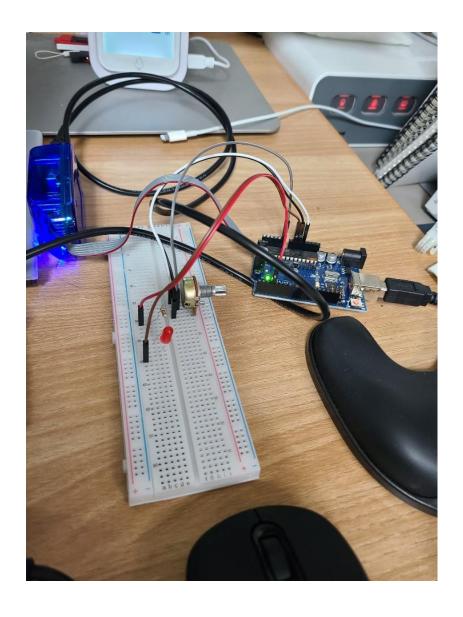


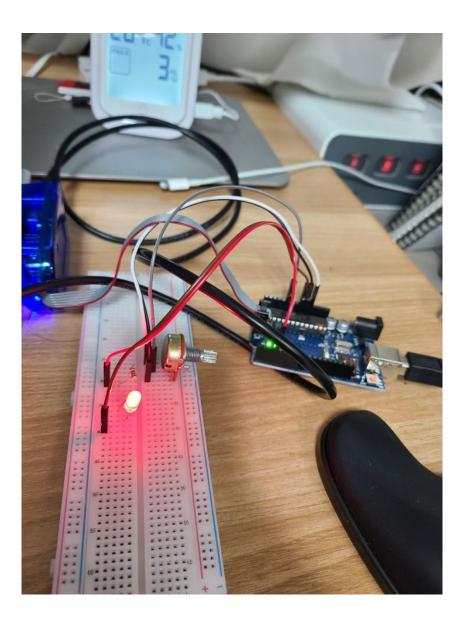
가변저항은 회전부를 돌리면 0 - 1023 사이 값으로 저항 변경이 되어 아날로그 입력으로 들어감





04_Potentiometer with LED ON_OFF





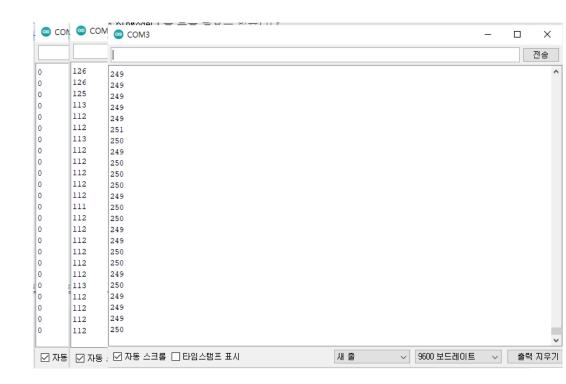


05_LED PWM Control with Potentiometer

```
○ 05_PWM_reg_with_LED | 아두이노 1.8.13
파일 편집 스케치 툴 도움말
 05_PWM_reg_with_LED §
int val = 0;
void setup() {
  // put your setup code here, to run once:
  Serial.begin(9600); //시리얼 통신 시작, 통신속도 9600
  pinMode(3,OUTPUT); //디지털 3핀을 출력모드
void loop() {
  // put your main code here, to run repeatedly:
  val = analogRead(AO); //변수 val에 아날로그 AO에 입력되는 신호 저장
  Serial.println(val);
  delay(100);
  //0 - 255 출력
  //val : 듀티 사이클 : 0 => 꺼짐 , 255 => 항상 켜짐
  analogWrite(3, val); //
```

analogRead(A0): 아날로그 입력을 0 - 1023 값으로 출력

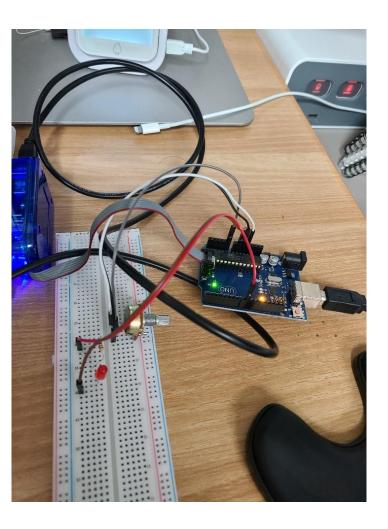
analogWrite(3, val): 3번 핀에 val 듀티비(Duty Cycle)로 PWM 구형파 출력 0: 완전꺼짐, 255: 완전켜짐

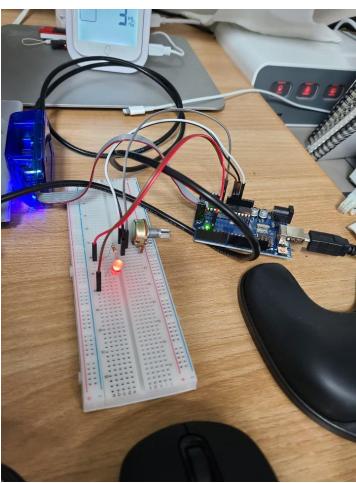


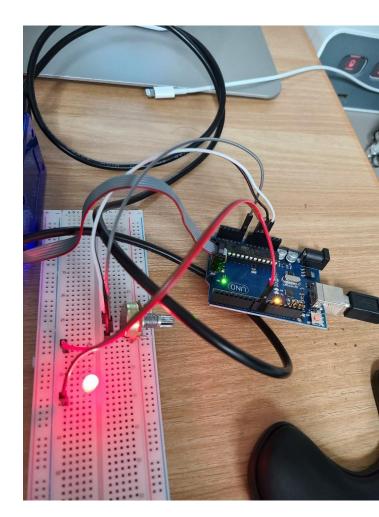


05_LED PWM Control with Potentiometer

LED Control











감사합니다.

