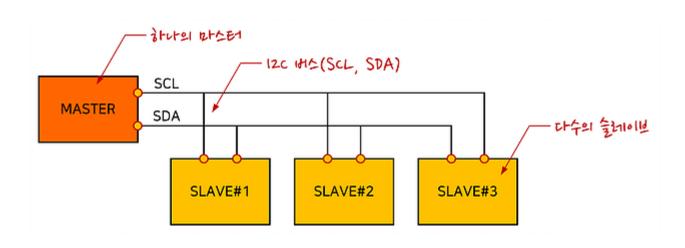
비접촉식 온도센서 실험

MLX90614

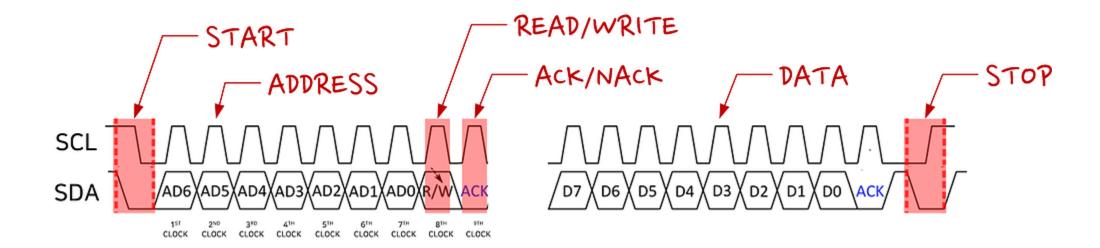
- 비접촉식 온도센서 모듈
- FOV 90°
- 측정범위 : -70°C ~ 380°C
- 인터페이스 : I2C



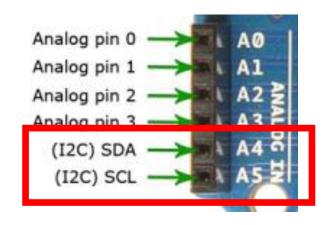
I2C 통신

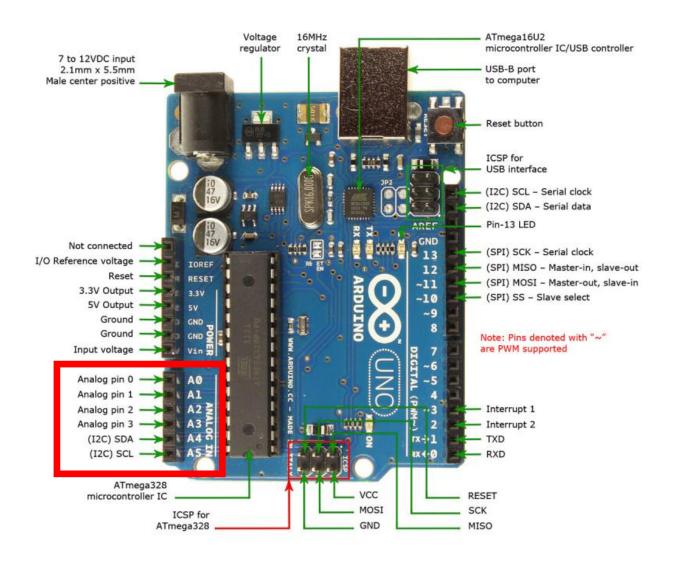


I2C 통신

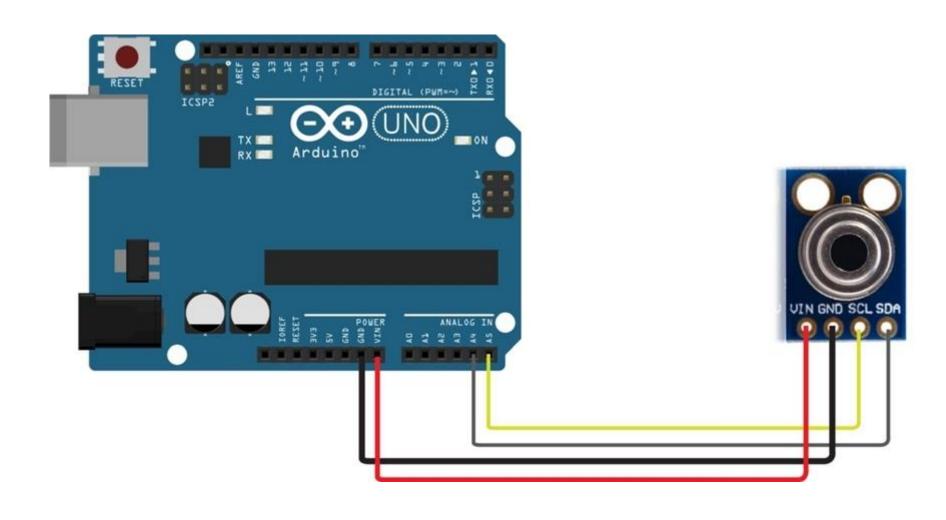


아두이노의 I2C통신

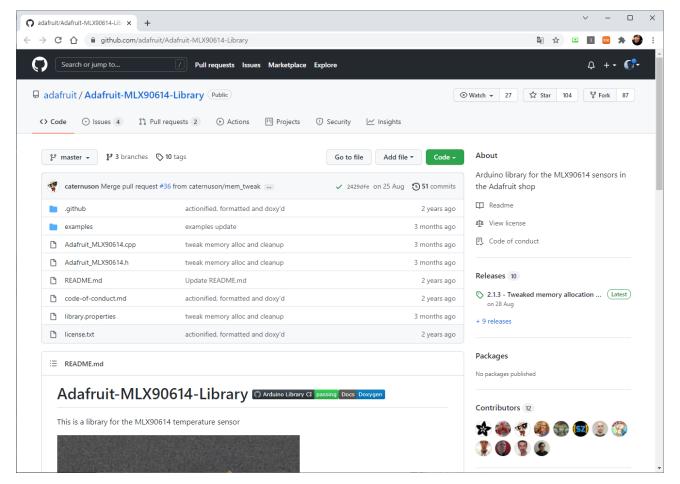




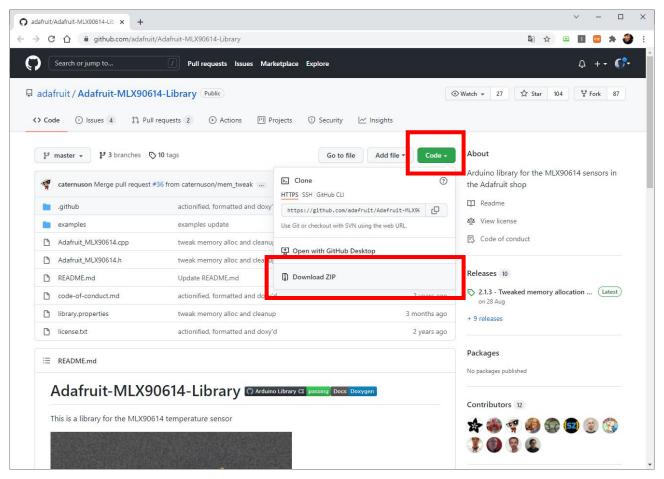
MLX90614 테스트

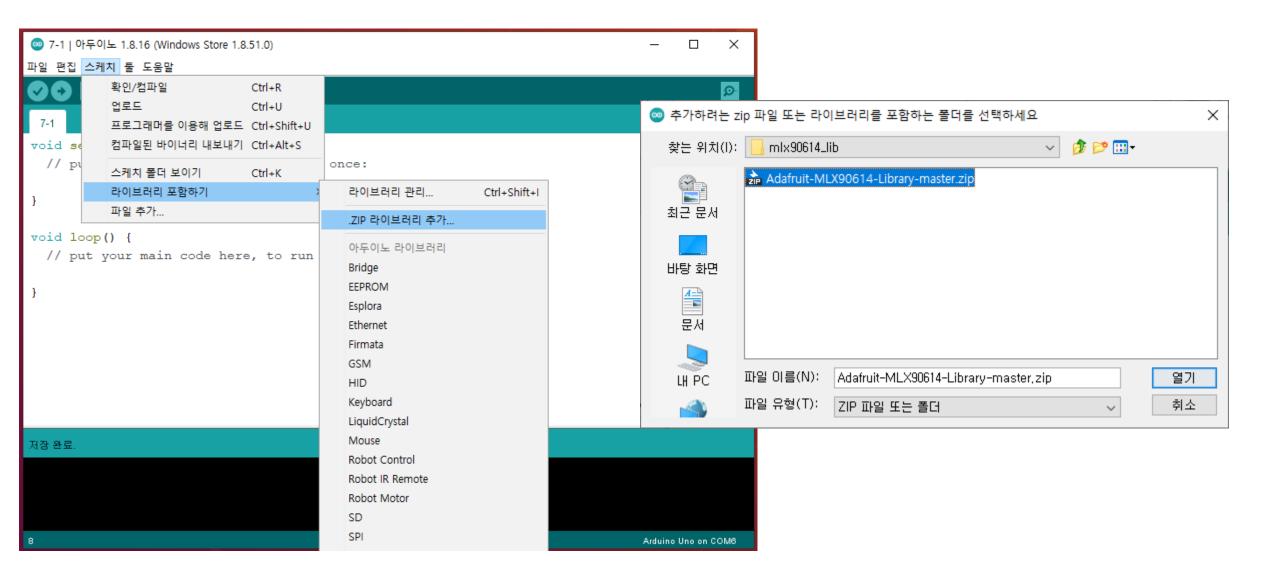


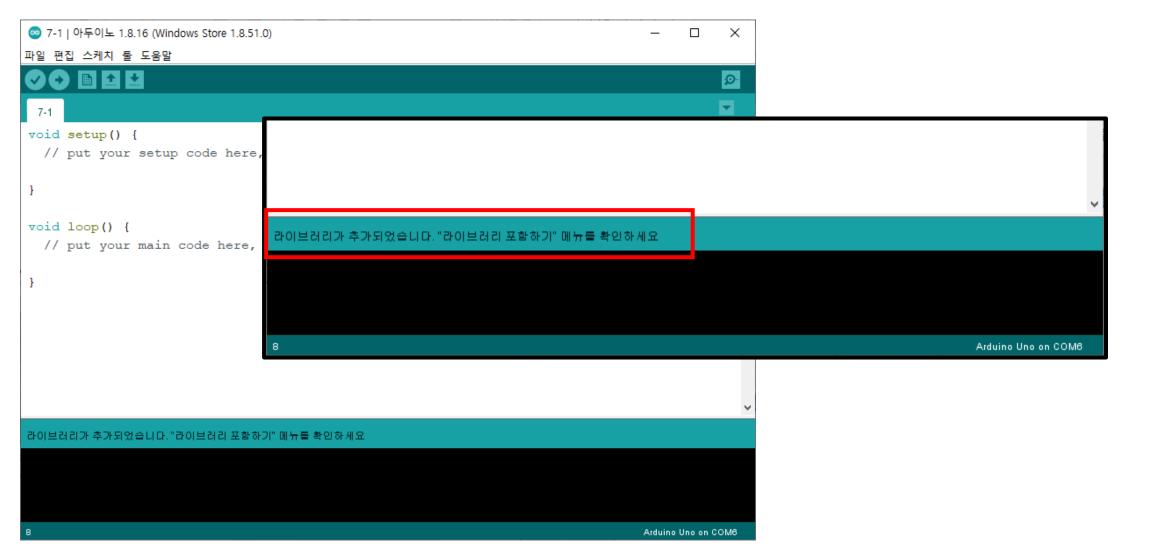
• https://github.com/adafruit/Adafruit-MLX90614-Library

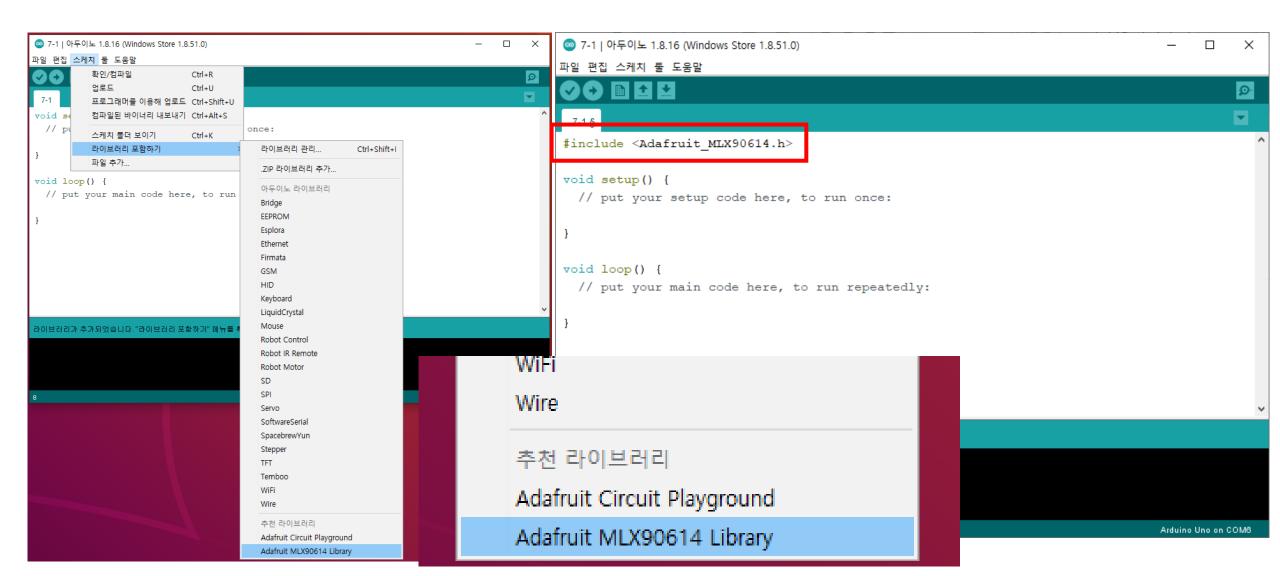


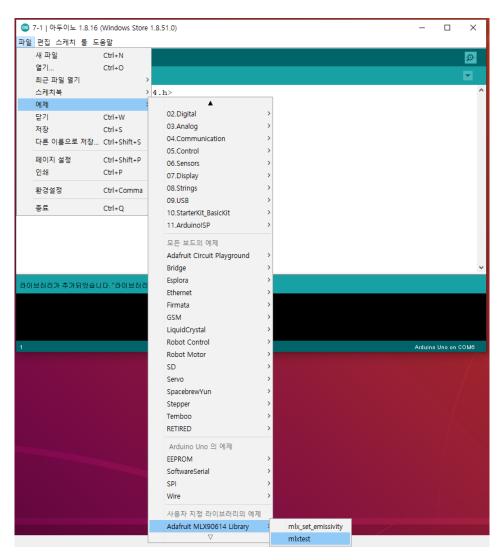
• https://github.com/adafruit/Adafruit-MLX90614-Library

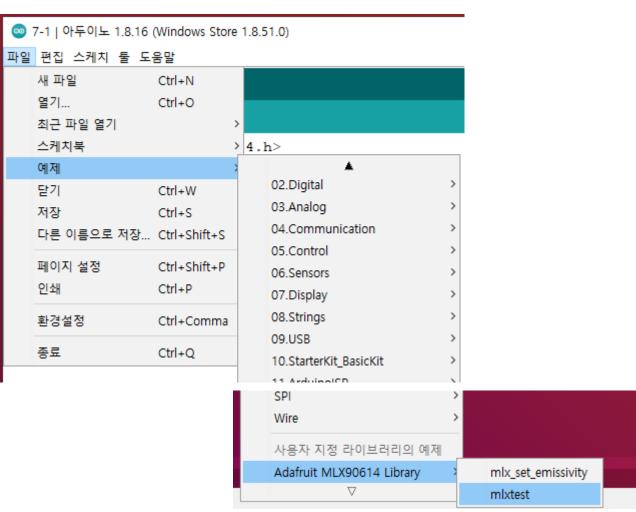






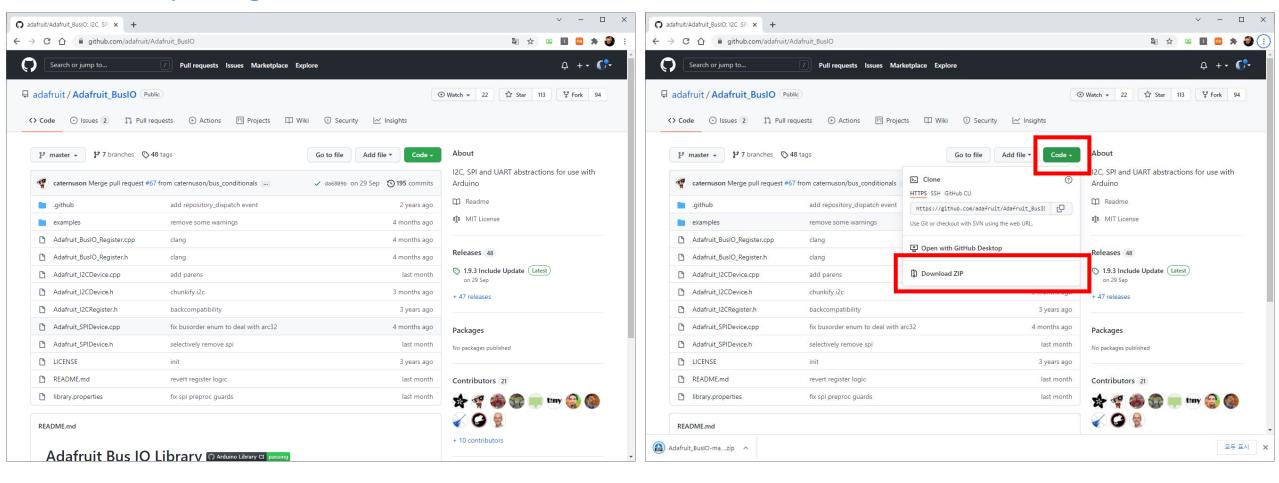




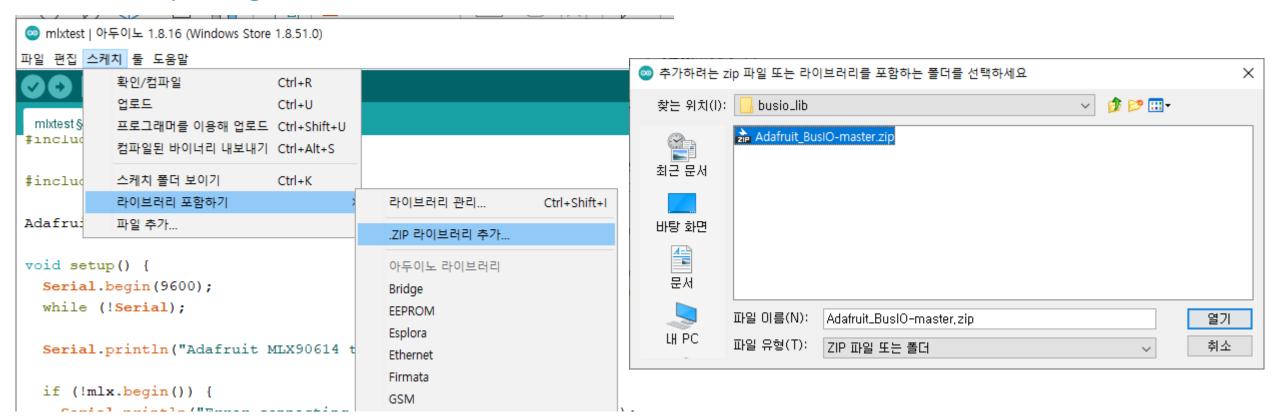


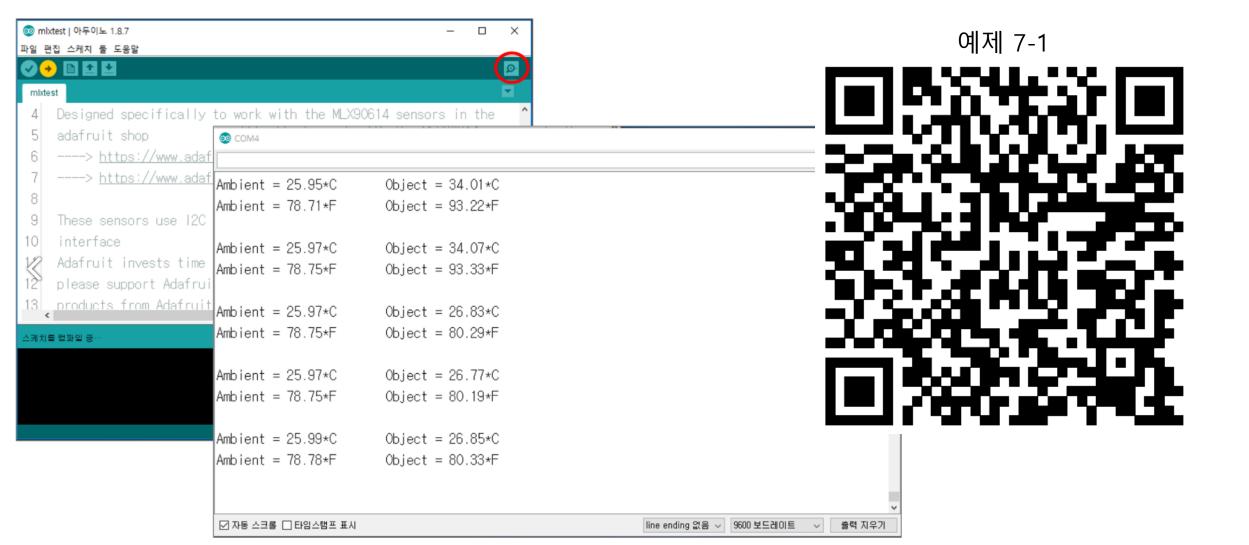
```
omlxtest | 아두이노 1.8.16 (Windows Store 1.8.51.0)
                                                                                파일 편집 스케치 툴 도움말
#include <Adafruit MLX90614.h>
Adafruit MLX90614 mlx = Adafruit MLX90614();
void setup() {
  Serial.begin(9600);
  while (!Serial);
  Serial.println("Adafruit MLX90614 test");
  if (!mlx.begin()) {
   Serial.println("Error connecting to MLX sensor. Check wiring.");
   while (1);
  };
  Serial.print("Emissivity = "); Serial.println(mlx.readEmissivity());
  Serial.println("=======");
void loop() {
  Serial.print("Ambient = "); Serial.print(mlx.readAmbientTempC());
  Serial.print("*C\tObject = "); Serial.print(mlx.readObjectTempC()); Serial.println("*C")
  Serial.print("Ambient = "); Serial.print(mlx.readAmbientTempF());
  Serial.print("*F\tObject = "); Serial.print(mlx.readObjectTempF()); Serial.println("*F")
  Serial.println();
  delay(500);
                                                                            오류 메시지 복사
보드 Arduino Uno 컴파일 에러
```

• https://github.com/adafruit/Adafruit_BusIO 라이브러리 다운로드



• https://github.com/adafruit/Adafruit_BusIO 라이브러리 추가





응용: 체온 측정 출입 관리

전체 구성

