

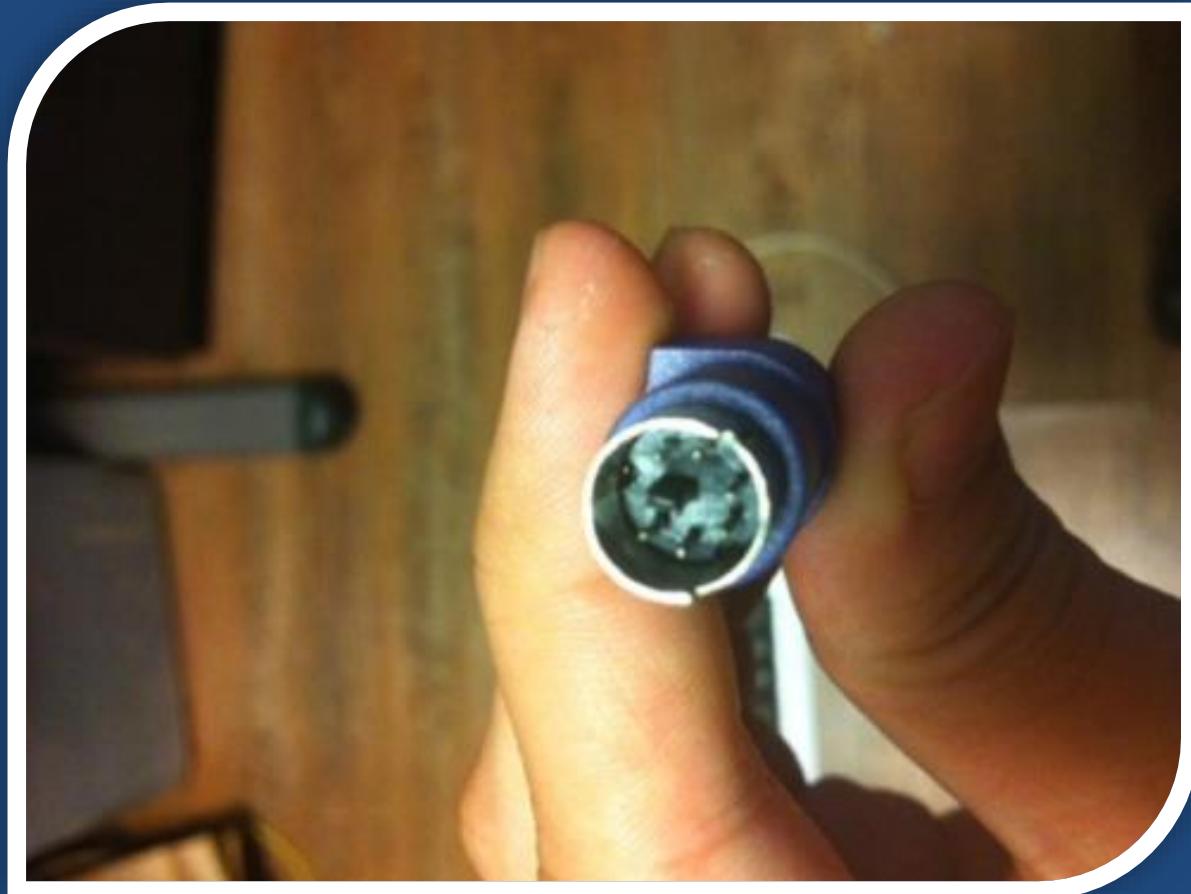
키보드 스니퍼 만들기

mongii@grayhash

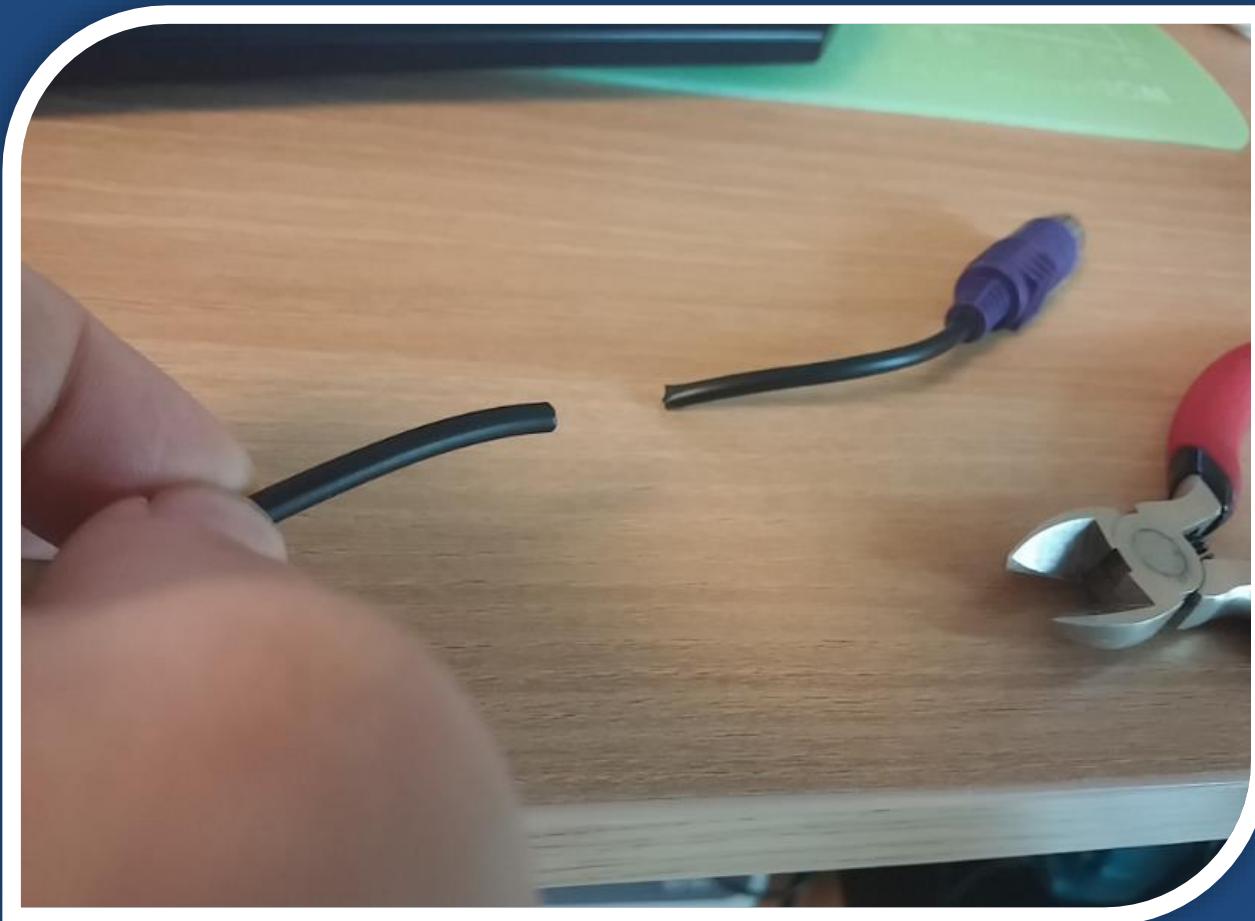
PS/2 방식의 키보드를 준비한다.



입력단자에 6개의 핀이 존재

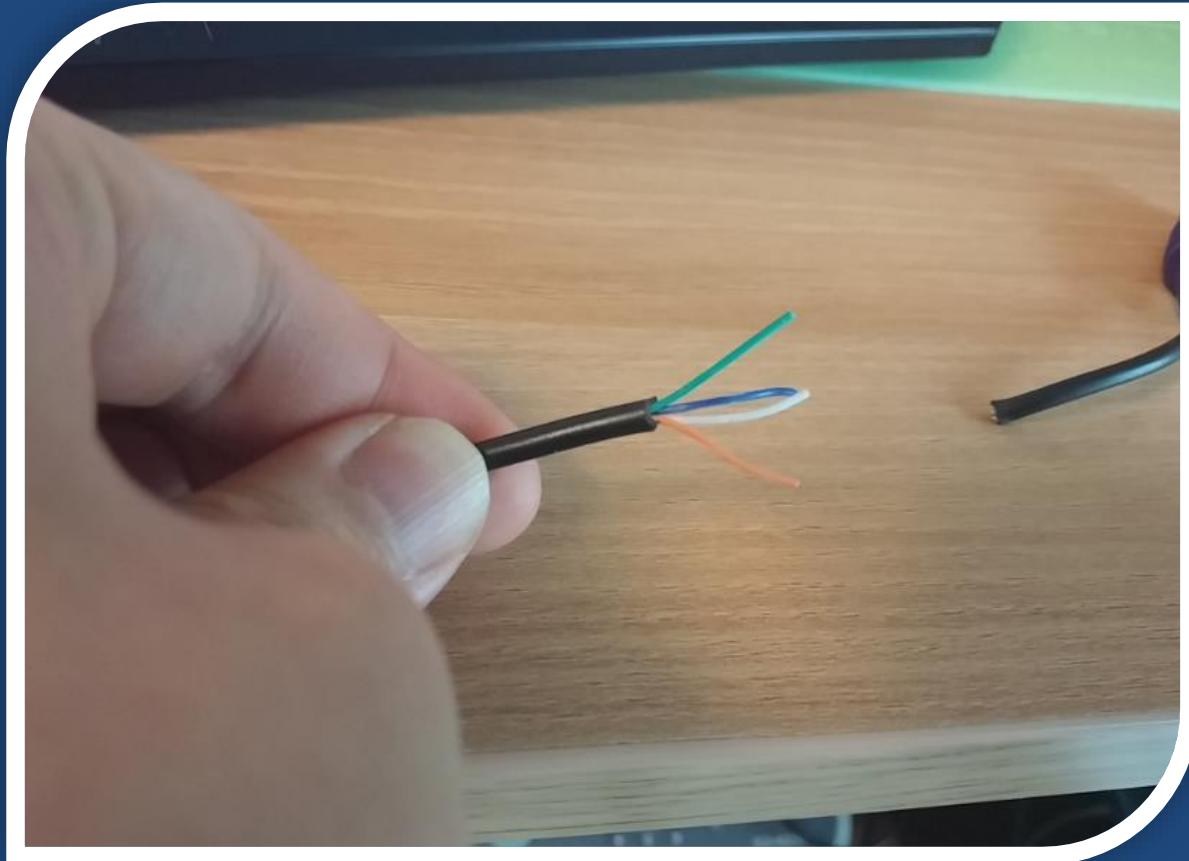


과감히 선의 중간을 자른다.

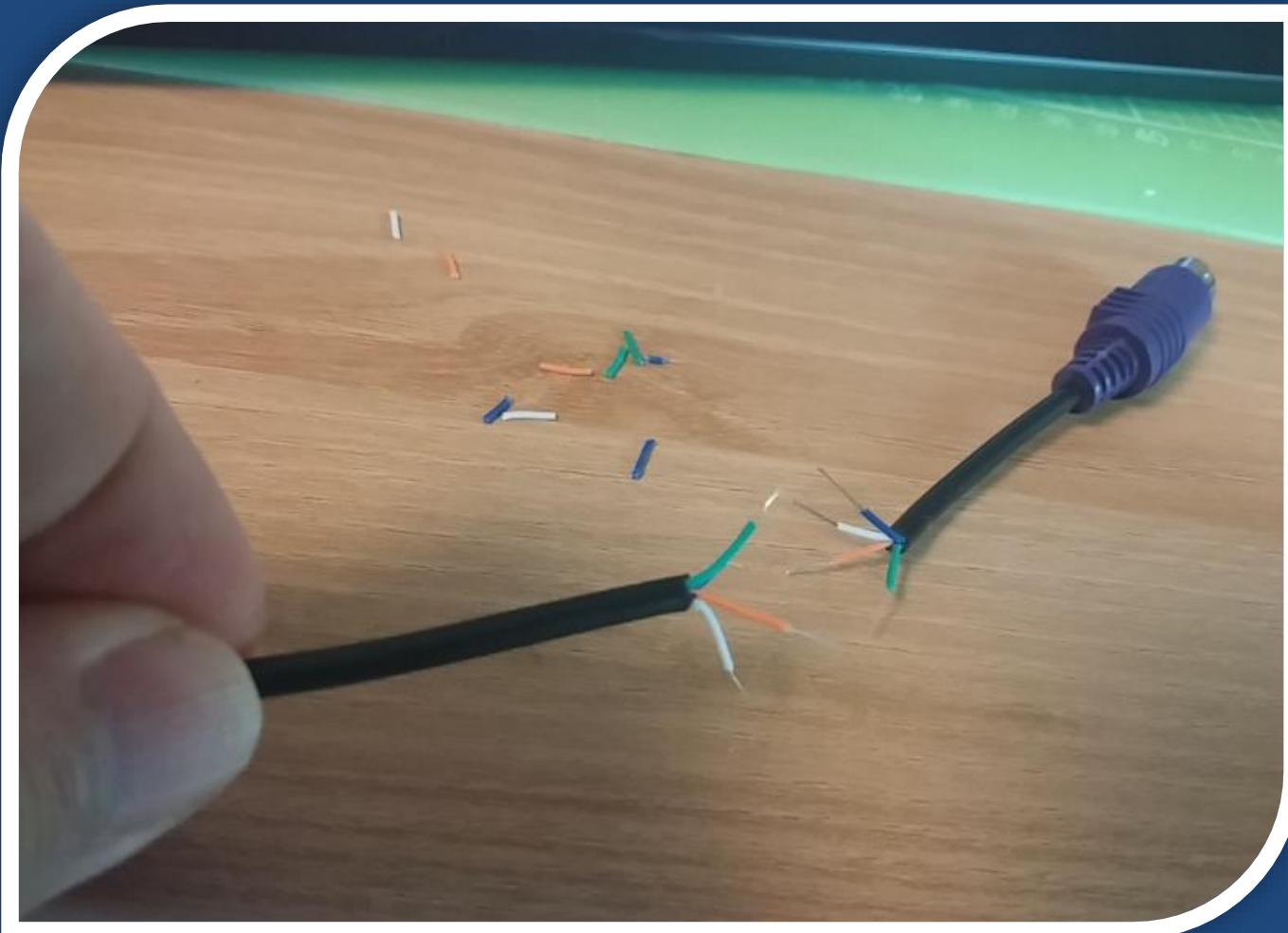


바깥 피복을 벗긴다

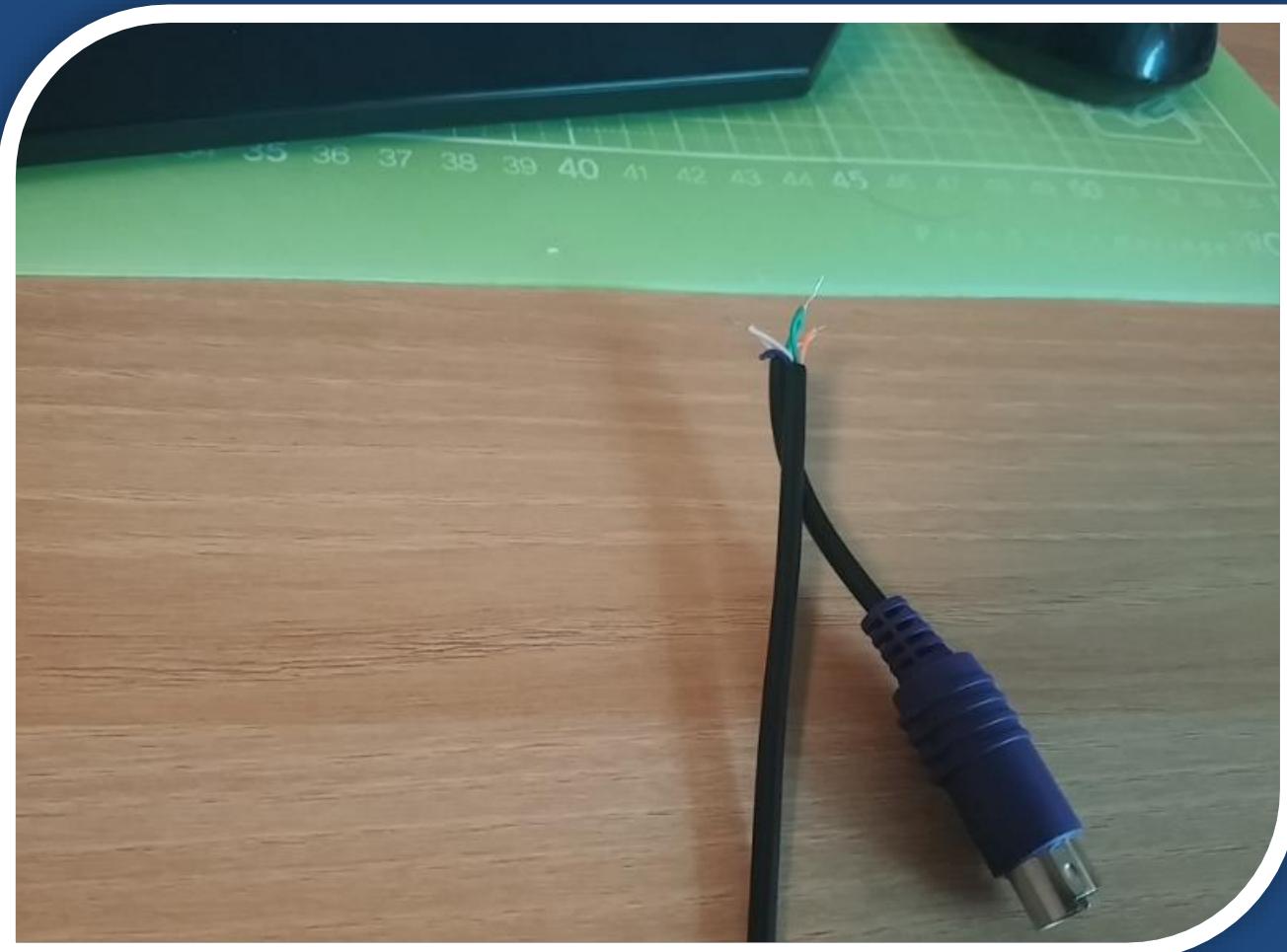
- 실제로는 6핀 중 4개만 사용된다.



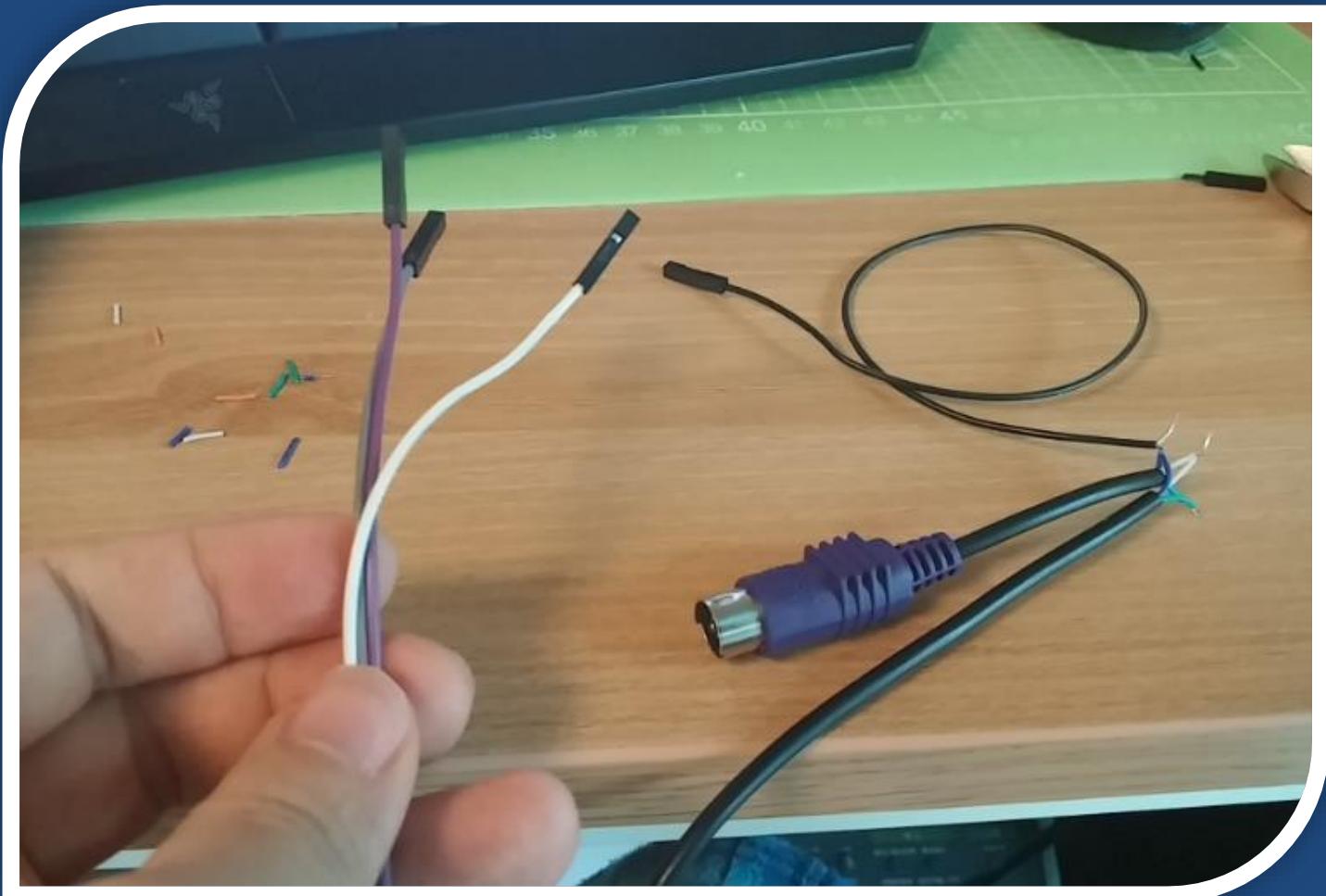
안쪽 피복을 벗긴다



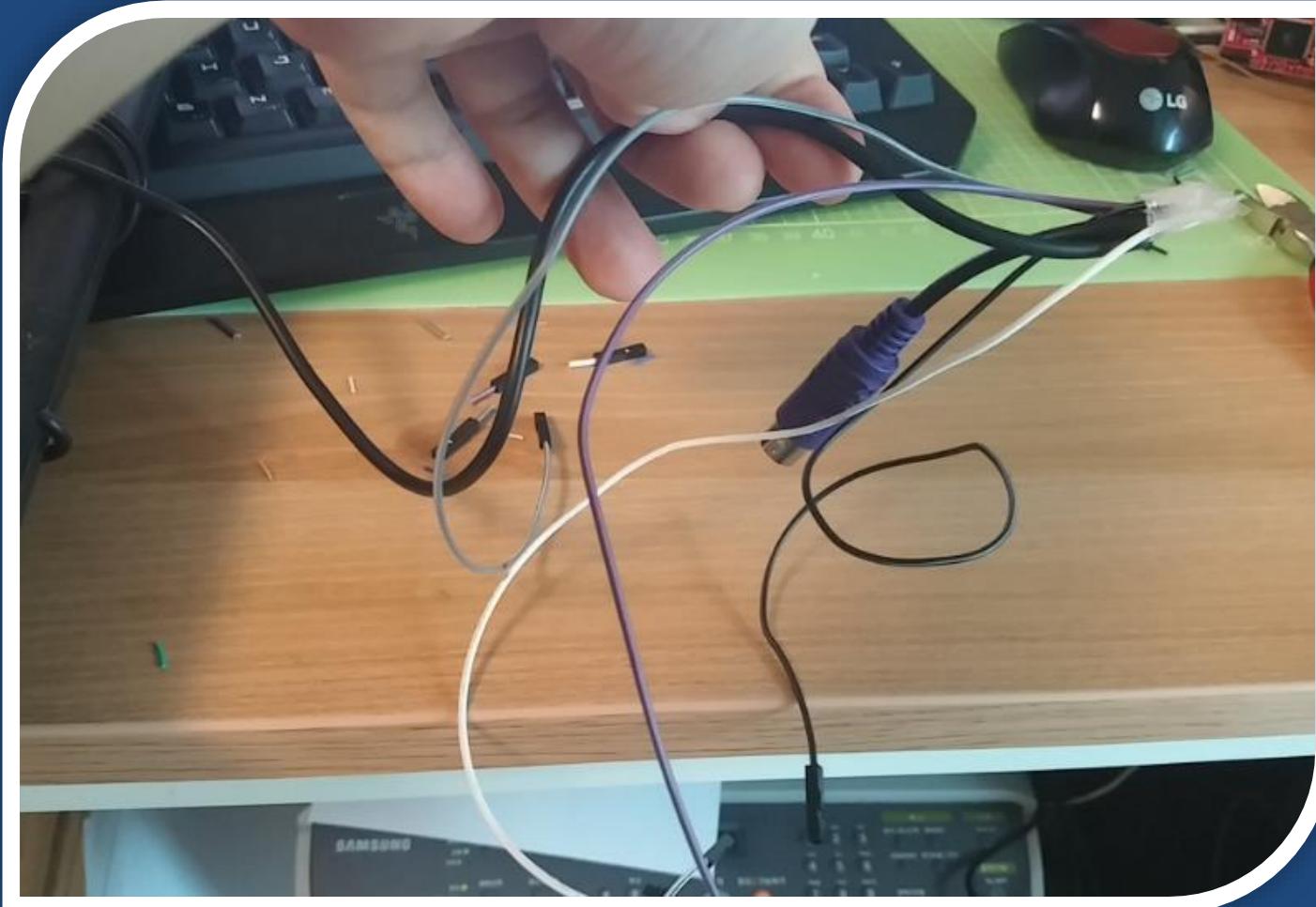
자른 선을 서로 연결한다.



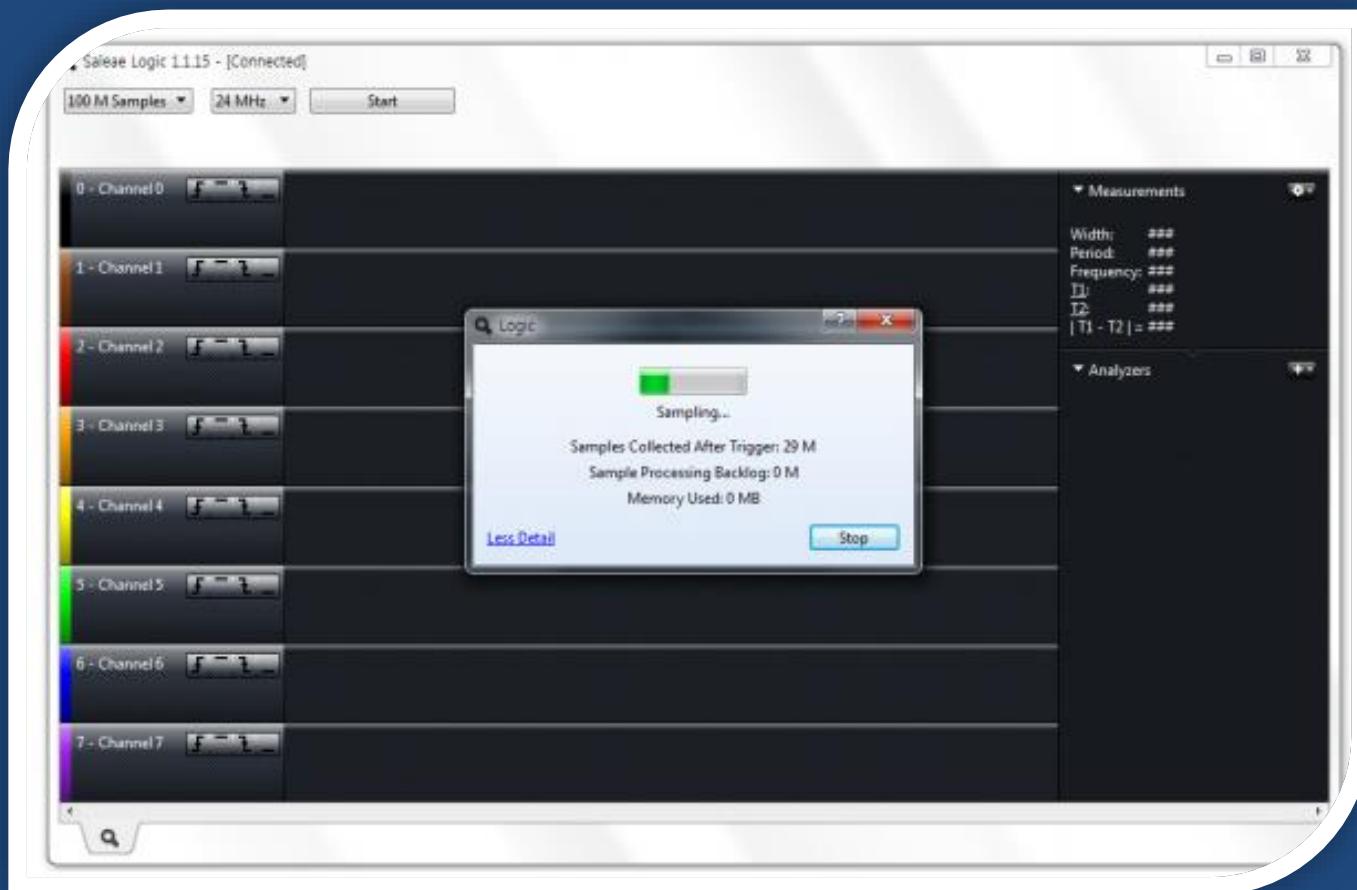
M/F 케이블을 절단한다.



케이블도 함께 각 선에 연결한다.

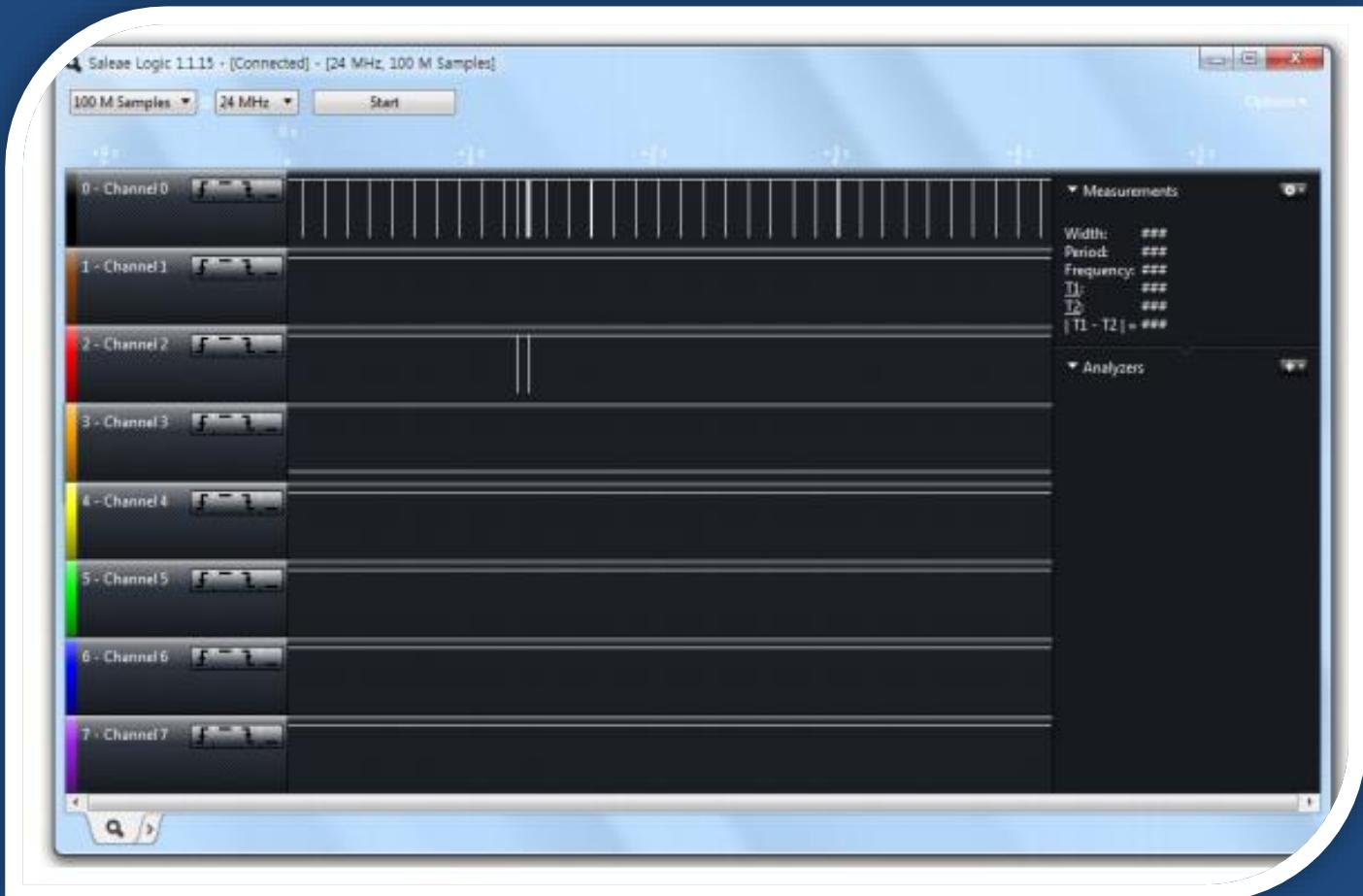


신호 분석 테스트 장면



각 핀의 용도가 확인된다.

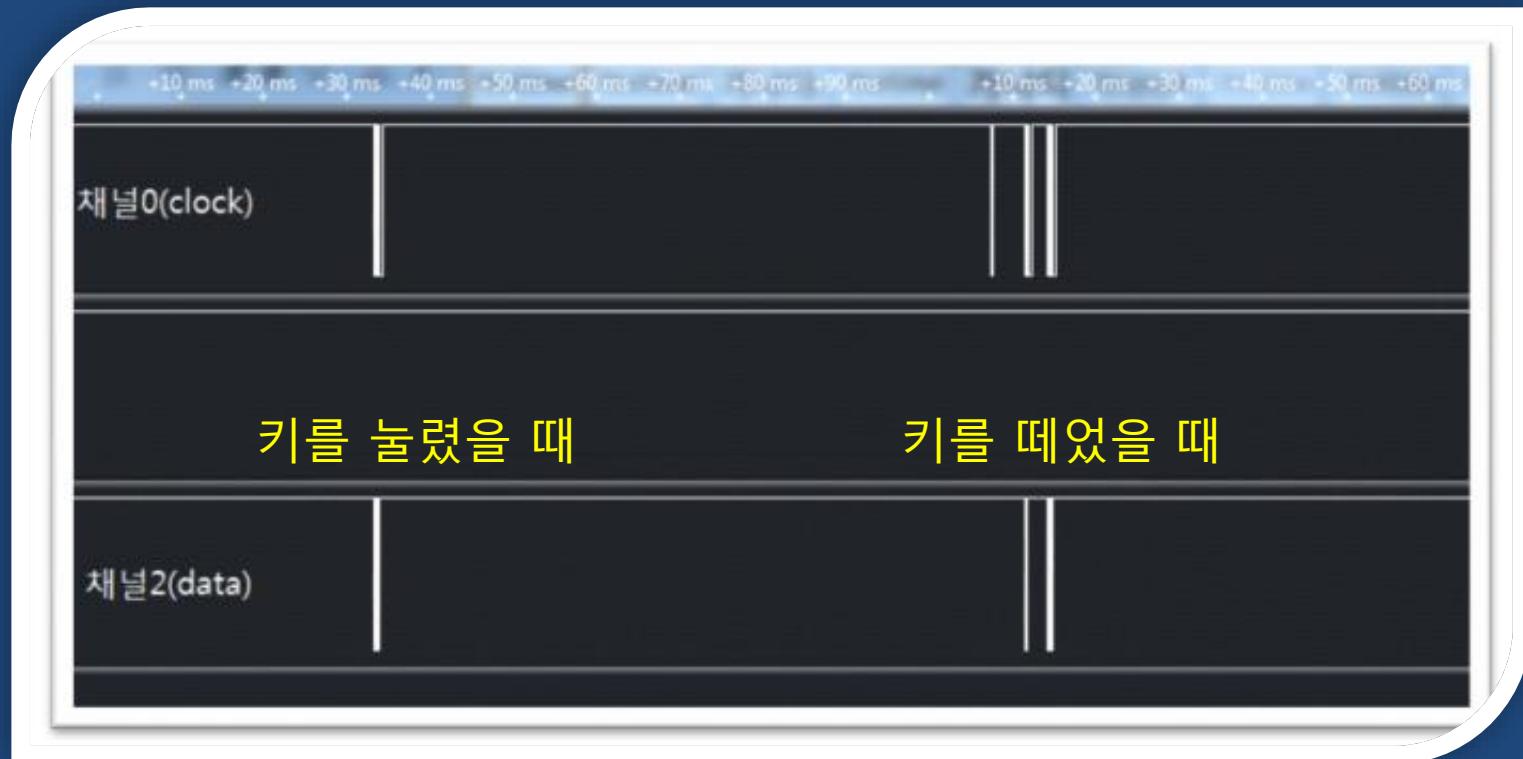
- CLOCK, DATA, VCC, GND



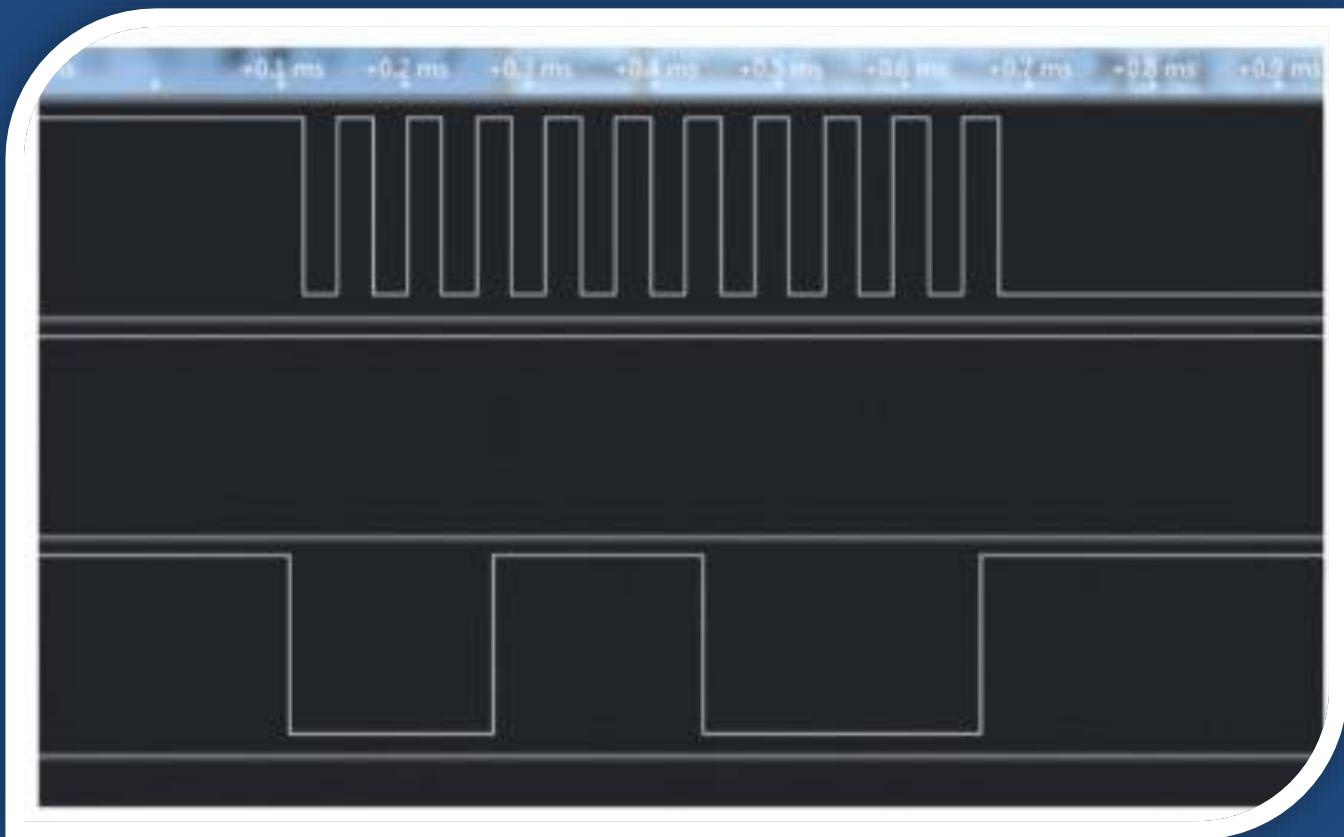
CLOCK/DATA 확대



CLOCK/DATA 확대

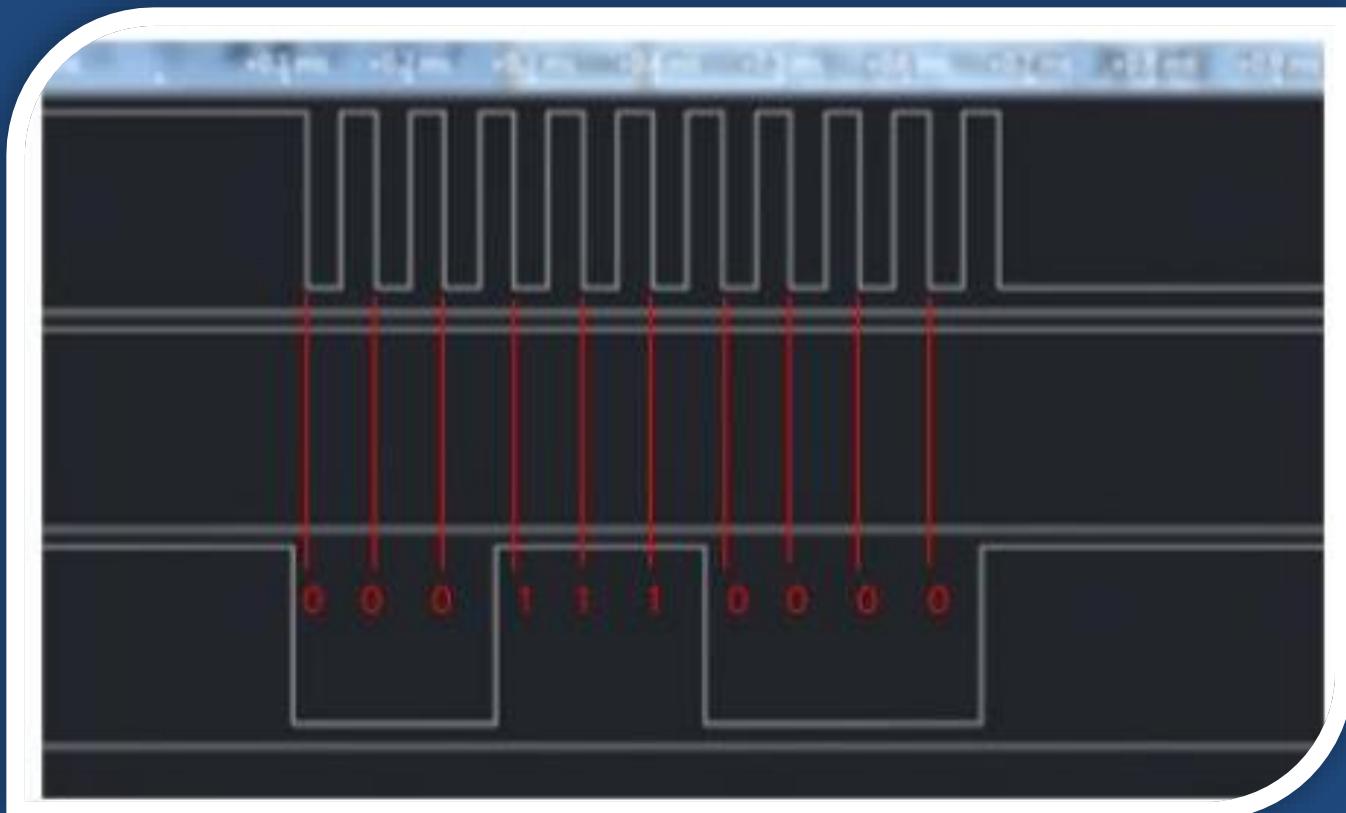


CLOCK/DATA 확대

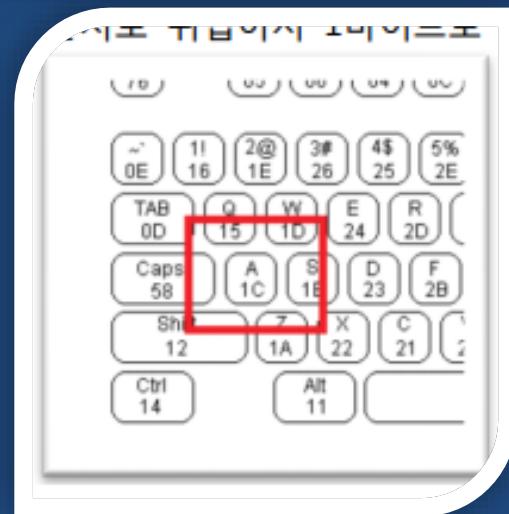
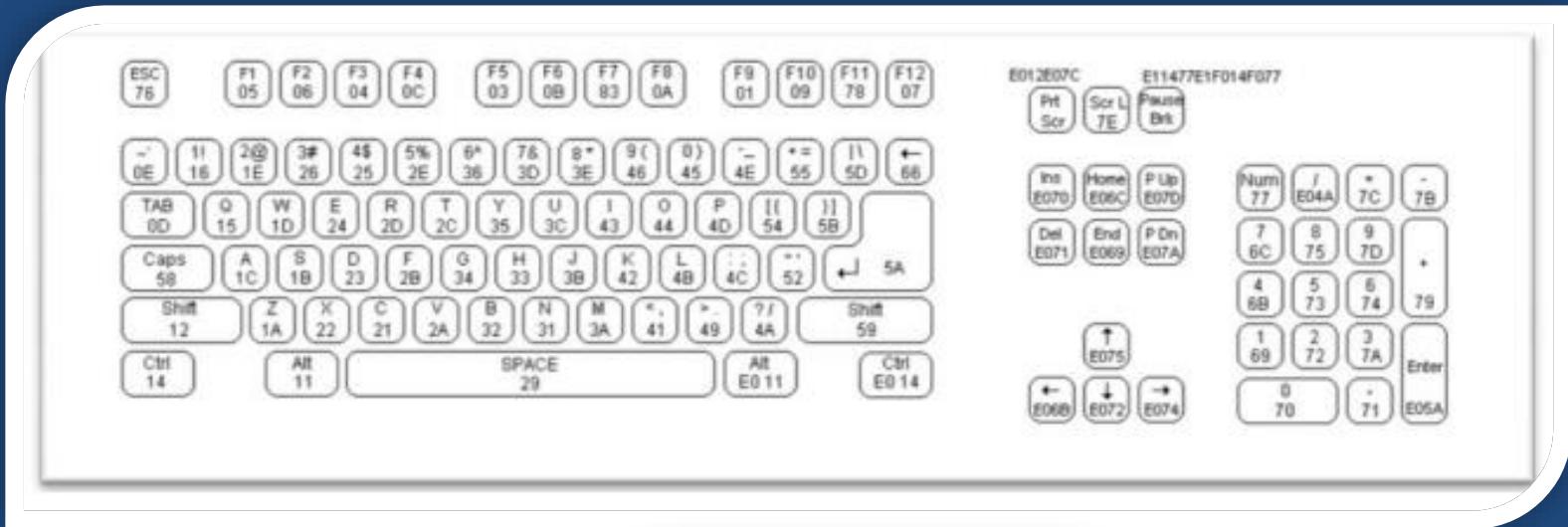


값 분석

- 반대 순서로, 0b00011100 (0x1C)



결과 확인



실습 문제

- AVR을 이용하여 키보드 신호 스니퍼를 만들어 보시오.
- 힌트 : 인터럽트 사용
- 목표1 : DATA 신호를 0과 1로 UART 출력
- 목표2 : DATA 신호를 분석하여 문자로 출력