임베디드 시스템 설계 및 실험

화요일 분반 10주차 실험 결과 보고서

**조 : 6조**

**조원 : 이주승 김선규 이동현 이지현 최세희**

**실험목표**

1. 임베디드 시스템의 기본 원리 습득
2. Timer 이해 및 실습

**세부 목표**

1. Timer 이해 및 실습
2. TFT LCD에 팀 이름, LED토글 ON/OFF 상태, LED ON/OFF 버튼 생성
3. LED ON 버튼 터치 시 TIM2 interrupt를 활용하여 LED 2개 제어
   1. 1초 마다 LED1 TOGGLE
   2. 5초 마다 LED2 TOGGLE
4. LED OFF 버튼 터치 시 LED Toggle 동작 해제

**이론적 배경**

1. **타이머(Timer)**

* 주기적인 시간 처리에 사용하는 디지털 카운터 회로 모듈
* 펄스 폭 계측, 주기적인 interrupt 발생 등에 사용
* Prescaler를 사용하여 높은 주파수를 낮춘 후, 8,16비트 등의 카운터 회로를 사용하여 주기를 얻는다.

1. **타이머의 종류(General-purpose timers)**

* 이번에 쓰는 타이머는 General-purpose timers로 prescaler를 이용해 16 비트 up/down, up/down auto-reload counter를 설정한다.
* 입력 신호의 펄스 길이 측정(input capture) 또는 출력 파형 발생(output compare and PWM)등 다양한 용도로 사용 가능하다.
* 펄스 길이와 파형 주기는 Timer prescaler와 RCC clock controller pre scaler를 사용하여 s 에서 ms 까지 변조할 수 있다. 타이머들은 완전히 독립적이며, 어떤 자원도 공유하지 않으나 동기화 가능하다.

1. **분주 계산**

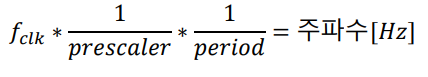


그림 분주 계산 식

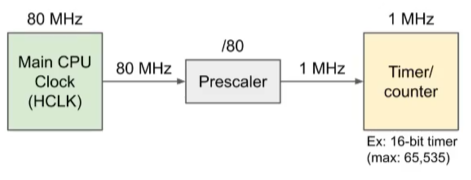


그림 분주 계산의 매커니즘

* 분주란 MCU에서 제공하는 Prequency를 사용하기 쉬운 값으로 바꾸는 것
* Counter clock frequency를 1~65536의 값으로 나누기 위해 16-bit programmable prescaler 사용
* Period로 몇 번 count하는지 설정
* Prescaler : 타이머로 들어오는 APB1, APB2 클럭을 1~65536범위 내의 원하는 값으로 나누기 위한 값
* Period : 타이머의 주기를 결정하는 최대 값

**구현 내용**

1. **TIM2 interrupt 설정**

텍스트이(가) 표시된 사진

자동 생성된 설명

TIM2 타이머 설정 및 인터럽트 설정을 한다.

1. Period가 10k 가 되면 1s가 시작
2. Period나 Prescaler 모두 0에서 시작하기 때문에 설정한 값에 -1을 해줌
3. **LED제어를 위한 TIM2 IRQHandler 정의**

텍스트이(가) 표시된 사진

자동 생성된 설명

- LED제어를 하기 위한 IRQHandler 정의

1) Led1 이 off부터 5초가 지난 후, Led2가 on을 하게 된다. 따라서 tim2\_counter를 %5해서 5초 마다 Led2가 점등하고 소등할 수 있도록 한다.

**실험 결과**

1. **LED 버튼 ON**

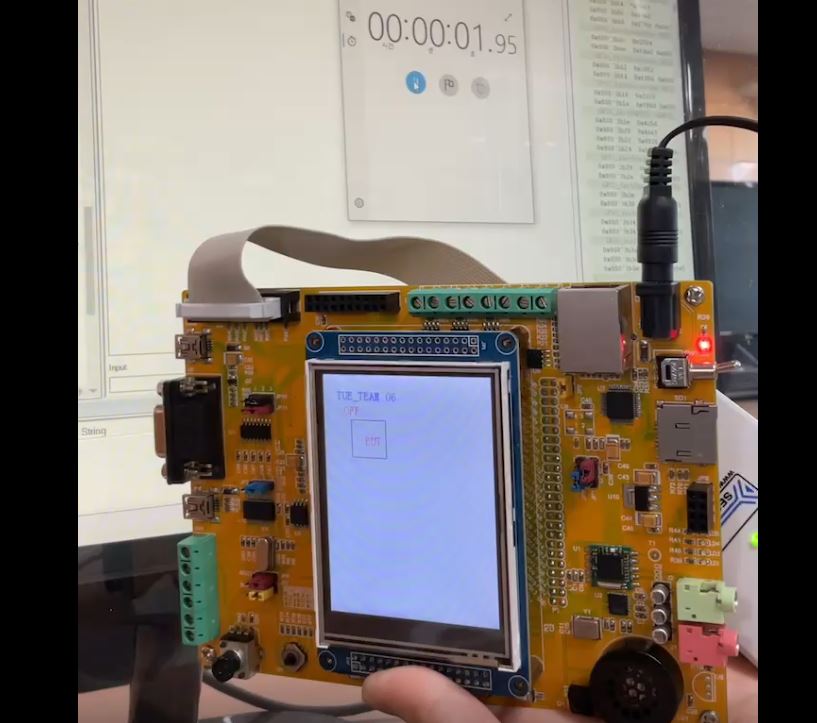


그림 3 Led 버튼 ON

* LCD 위의 OFF 상태의 버튼에서 BUT로 되어있는 사각형의 버튼을 터치하게 되면, ON으로 바뀌면서 Timer Interupt 시작.

1. **Led 1/2 점멸**

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOydtOuLpO2drAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNjcAAJKSAAIAAAADNjcAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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그림 led1 점등

* Led1의 불빛이 1초마다 toggle 되게 한다.

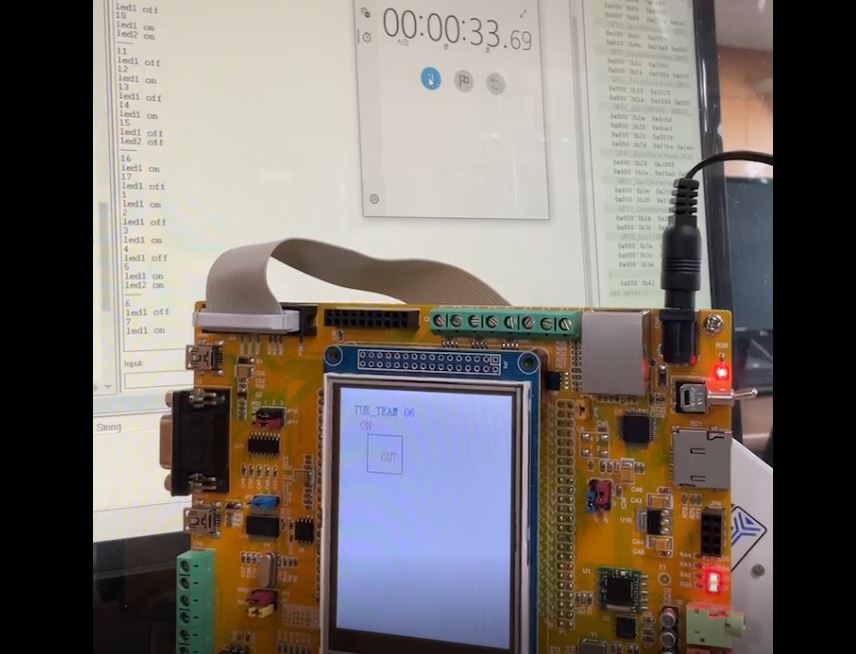


그림 Led2 점등

* Led2의 불빛은 5초마다 toggle 되게 한다.

1. **LED 버튼 OFF**

텍스트, 전자기기, 컴퓨터이(가) 표시된 사진

자동 생성된 설명

그림 Led Toggle Off

* 마지막으로 버튼을 누르면 화면의 ON이 OFF가 되면서 LED Toggle 동작 해제

**어려웠던 점**

1. **서보모터**

실험 과정에서 계속 서보모터가 말썽이었다. 이는 서보모터가 작동이 될 때는 이상하게 작동이 되었고, 보드와 연결된 핀을 뽑아도 혼자 움직임을 포착하였다. 혹시나 싶어 서보모터를 새 걸로 교체를 했는데, 이 문제들이 해결되었다. 즉 서보모터가 불량품이었다.

서보모터를 1회 회전하는 값을 주었고 이를 실행시켰을 때 혼자 무한 루프에 빠지게 되며 계속 회전하였다. 이는 PWM\_Configure에서 핀을 TIM4로 지정했지만 문장 속에 하나가 다른 것으로 지정되었었고, RCC\_Configure에서 제대로 된 호명을 안 해서 일어난 문제였다.

1. **LED**

LED2가 5초에 켜지고 10초에 꺼지고 15초에 켜지는지 실험에 대한 정의에 대한 의문점이 들었다. LED1이 1초에 한번 깜빡하는 것에 대한 정의를 확인하고 LED2도 5초에 1번 점멸하도록 변경해두었다. 이를 만약 5초마다 변경을 주고 싶다면 resetbits만 빼주게 되면 설명한 대로 작동한다.

1. **Dlink 에러**

실험 도중 에러가 계속 발생하였고, 이는 일정 시간 혹은 장비에 연결된 선들을 전부 다시 뺏다가 꼽는 과정을 걸치면 해결이 되었다.