

Lecture challenge1

SYSTEM SPECIFICATION:

- Imagine you have only one pin available on your controller ☹.
- which connects to an Analog-to-Digital Converter (ADC) ☺.
- Though this pin you have to control various operations in the system.

OPERATIONS AND MODES:

Mode 0:

- System has no interrupt (Maskable interrupt).
- LCD display Mode0 in first line, No Maskable in second line.

Mode 1:

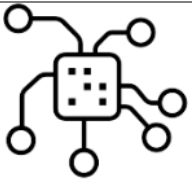
- System has interrupt (Maskable interrupt).
- EXTI0 is enabled.
- LCD display Mode1 in first line, E: EXTI0 in second line.
- EXTI0 toggle LED0.

Mode 2:

- System has interrupt (Maskable interrupt).
- EXTI0,EXTI1 is enabled.
- LCD display Mode1 in first line, E: EXTI0,EXTI1 in second line.
- EXTI0 set LED0.
- EXTI1 clear LED0.

Mode 3:

- System has interrupt (Maskable interrupt).
- EXTI0,EXTI1 is enabled.
- LCD display Mode1 in first line, E: EXTI0,EXTI1 in second line.



- EXTI0 toggle LED0.
- EXTI1 toggle LED1.

LEGAL CHEATING:

- You go to your team mate and give you this circuit and said this is part of the solution can you code? 😊

