Configurations Steps

SysCtrl_Clock_Cfg.h
- Choose the clock source , we will use the precise internal clock
- Choose using PLL or not, we won't use PLL
- Choose the system divisor, in case of PLL enabled

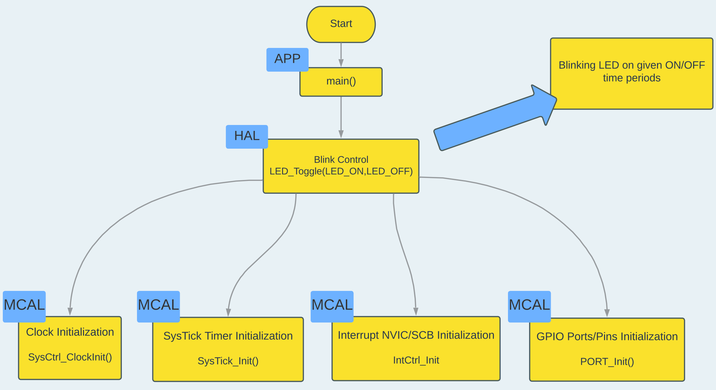
SysTick_Cfg.h
- Choose the clock frequency in hertz , we will work on 12 MHz as keil simulator doesn't support other frequencies.

IntCtrl_Cfg.h
- Specify the number of required peripherals to configure their interrupt settings, in this project we will use SysTick timer exception so we won't need any peropheral interrupts, so INT_MaxNumToBeConfigured = 0
- Choose SysTick Timer periority level from 0:7, we will use level 0

Blink_LED.h
- Choose the required pin (LED_PIN) to operate the blinking led functionality (PA0)

PORT_Lcfg.c
- Configure required pins parameters
  1. Channel Type (PA0 - PB3 - ...)
  2. Internal attachment : (PullUp - PullDown - OpenDrain)
  3. Direction(Input,Output)
  4. Mode Type (DIO_MODE, others)
- In this project we only need one output pin to toggle a LED, so we will use
  - LED_PIN from Blink_LED.h (PA0)
  - PullUp - Output - DIO_MODE

Overview



Program FLow