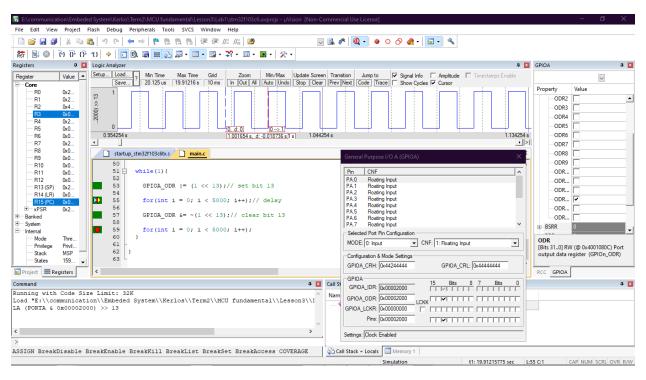
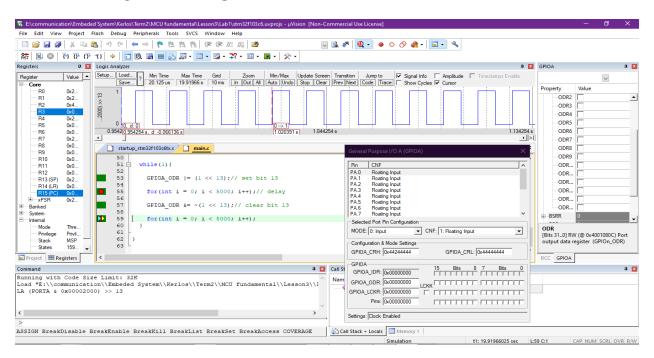
Lab1

❖ Practical lab on STM32F103C6 Toggle LED

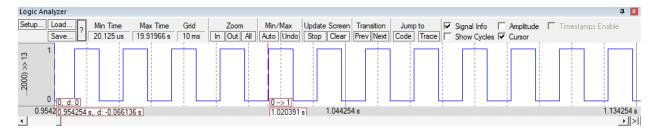
➤ High Pin -> ODR



➤ Low Pin -> ODR



➤ Logic Analyzer

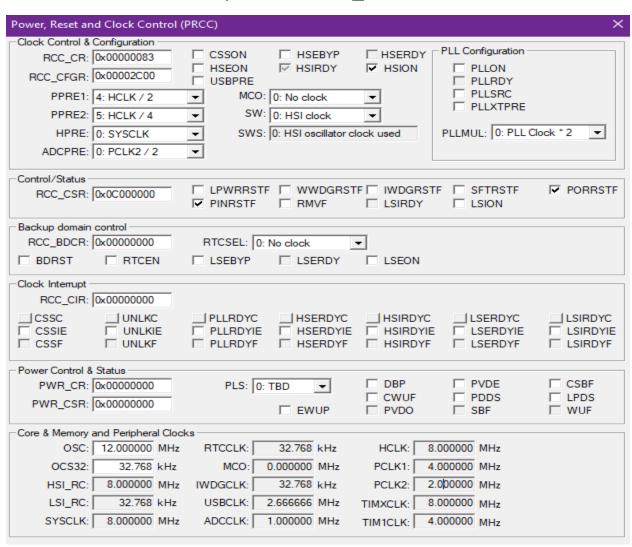


➤ MCU Clock (Default: HSI)

Power, Reset and Clock Control (PRCC)	X
Clock Control & Configuration RCC_CR: [0x00000083	HSEBYP HSERDY PLL Configuration HSIRDY HSION PLLON PLLRDY PLLSRC PLLXTPRE S: 0: HSI clock PLLMUL: 0: PLL Clock * 2
ADCPRE: 0: PCLK2 / 2 Control/Status RCC_CSR: 0x0C000000 LPWRRS: PINRSTF	
Backup domain control RCC_BDCR: 0x00000000 RTCSEL: 0 BDRST RTCEN LSEBYP): No clock
Clock Interrupt RCC_CIR: 0x00000000 CSSC UNLKC PLLRDYC CSSIE UNLKIE PLLRDYIE CSSF UNLKF PLLRDYF	HSERDYC HSIRDYC LSERDYC LSIRDYC HSERDYIE HSIRDYIE LSERDYIE LSIRDYIE HSERDYF HSIRDYF LSERDYF LSIRDYF
Power Control & Status PWR_CR: 0x00000000 PWR_CSR: 0x00000000	DEP PVDE CSBF CWUF PDDS LPDS EWUP PVDO SBF WUF
OSC: 12.000000 MHz RTCCLK: OCS32: 32.768 kHz MCO: HSI_RC: 8.000000 MHz IWDGCLK: LSI_RC: 32.768 kHz USBCLK: SYSCLK: 8.000000 MHz ADCCLK:	32.768 kHz HCLK: 8.000000 MHz 0.000000 MHz PCLK1: 8.000000 MHz 32.768 kHz PCLK2: 8.000000 MHz 2.666666 MHz TIMXCLK: 8.000000 MHz 4.000000 MHz TIM1CLK: 8.000000 MHz

Lab2

- Change the SYSCLK, HCLK, PCLK1, and PCLK2 with different frequencies
 - Configure Board to run with the following rates:
 - APB1 Bus Frequency 4MHz
 - APB2 Bus Frequency 2MHz
 - AHB Frequency 8MHz
 - SYSCLK 8MHz
 - Use only internal HIS_RC



Lab3

- Change the SYSCLK, HCLK, PCLK1, and PCLK2 with different frequencies
 - Configure Board to run with the following rates:
 - APB1 Bus Frequency 16MHz
 - APB2 Bus Frequency 8MHz
 - AHB Frequency 32MHz
 - SYSCLK 32MHz
 - Use only internal HIS_RC

