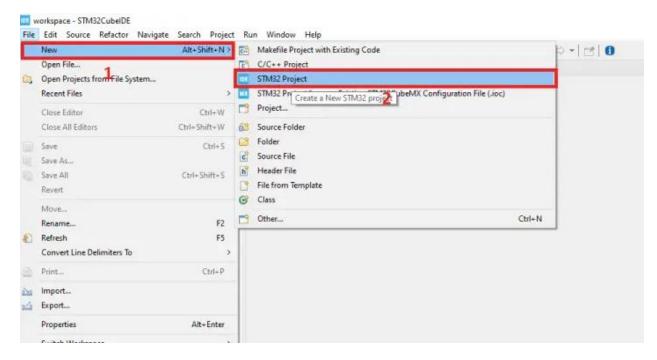
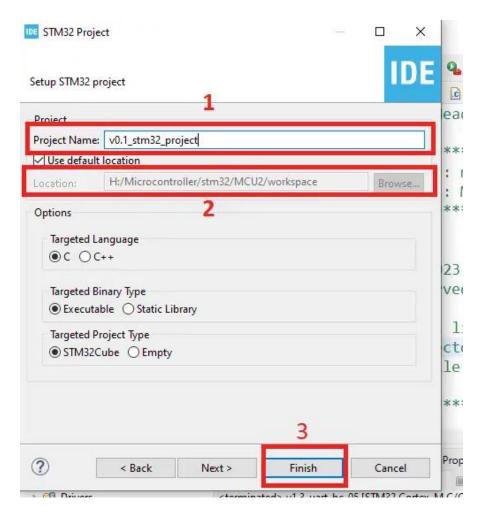
Project creation in Stm32Cube IDE



Select STWINBX1 board



Open MX and clear all Pinouts

SETTING UP LEDS

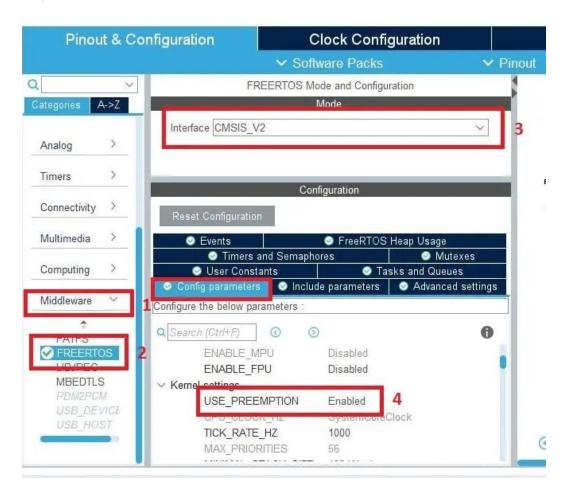
Find the pins and set them up as GPIO Output

Set up FreeRTOS

Download the middlware

∨ STMicroelectronics.X-CUBE-FREERTOS	\odot	1.3.1	
✓ CMSIS RTOS2	\odot	10.6.2	
∨ RTOS2	0		
Core	\odot	10.6.2	TZ_Non_Supported ∨
Неар	\odot	10.6.2	Heap_4 V

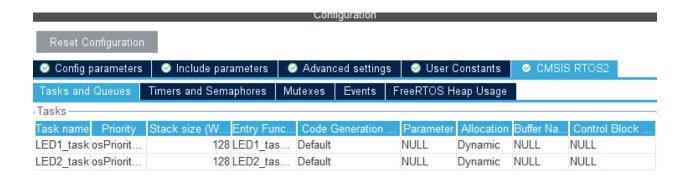
Then

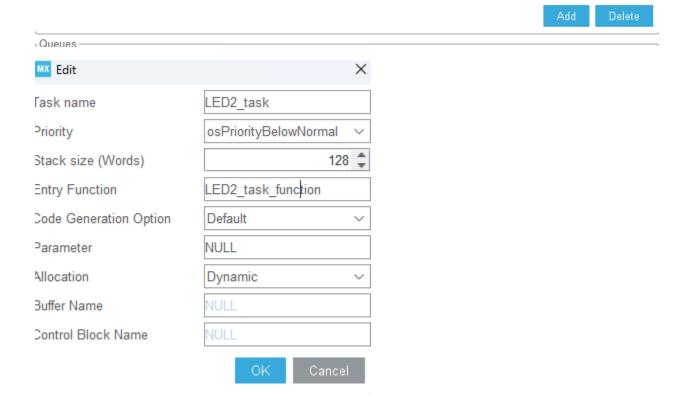


Create tasks

✓ CMSIS RTOS2

Enable RTOS





Change timebase for SYS from SysTick to TIM3 (any available TIM)

SYS Mode and Configuration

Mode

Timebase Source TIM3

Multitask toggle LED

```
void LED1_task_function(void *argument)
{
   /* USER CODE BEGIN LED1_task */
   /* Infinite loop */
   for(;;)
   {
      HAL_GPIO_TogglePin(LED1_GPIO_Port, LED1_Pin);
      osDelay(500);
   }
   /* USER CODE END LED1_task */
}
```

Make sure both tasks toggle different LEDs