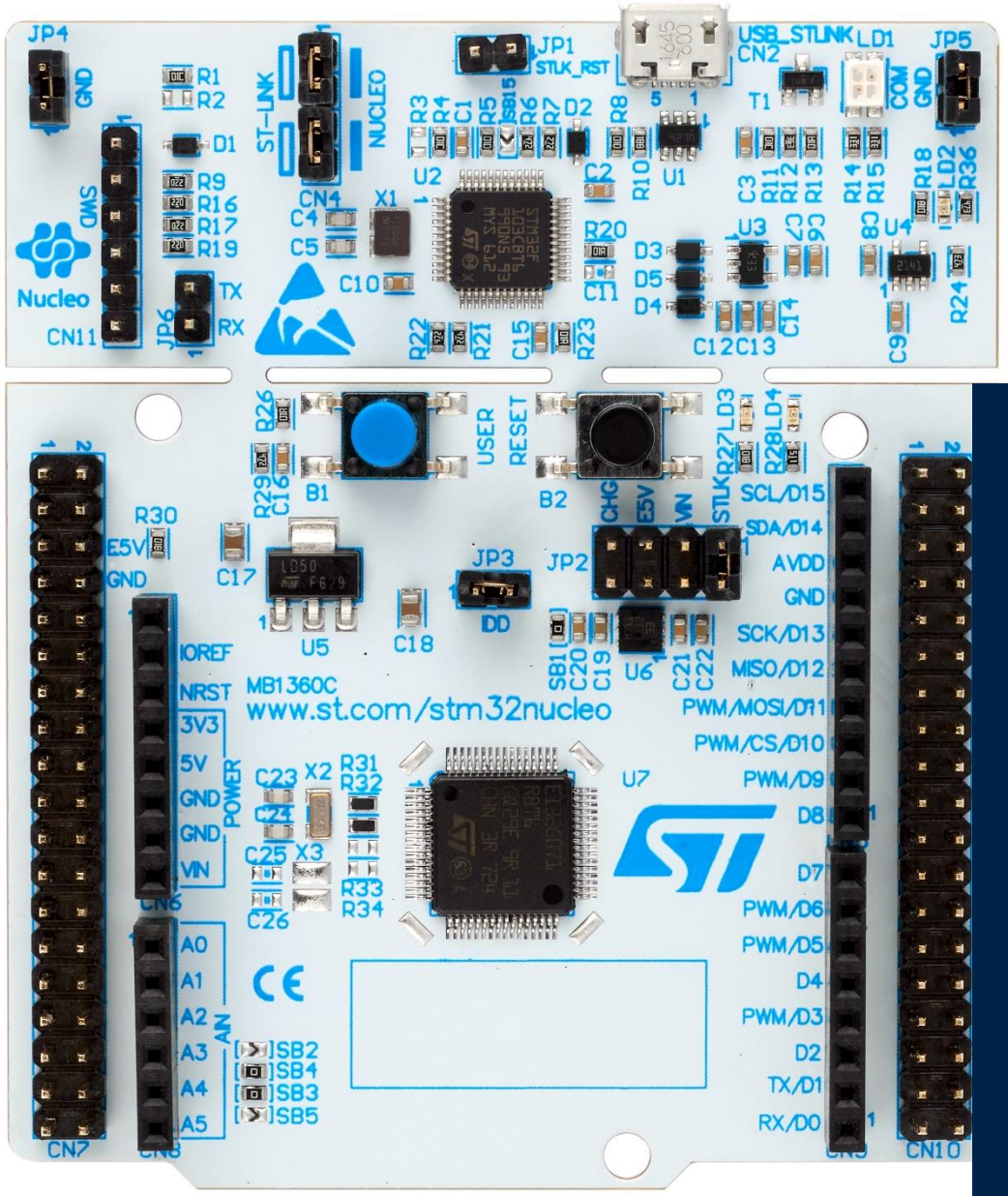

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Led blinking hands-on

Hands-on

Key learning

- Practice STM32CubeMX project source code generation
- Test the tools & hw setup

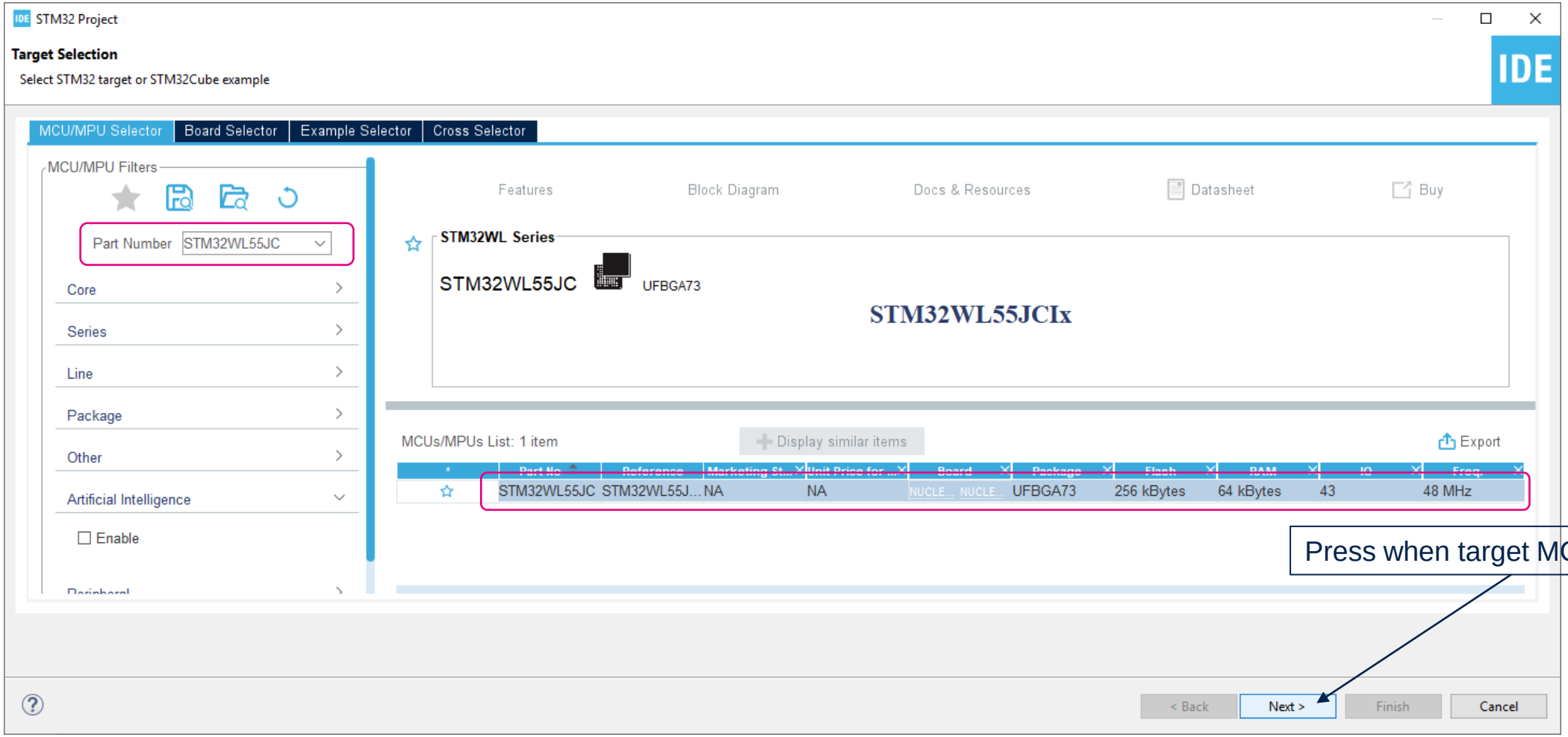
Task

- Prepare simple project for STM32WL55JCTx populated on Nucleo board
- PB15 as GPIO output push-pull
- Periodically toggle the LED_Blue connected to PB15
- **Cortex-M4 only** to simplify the task

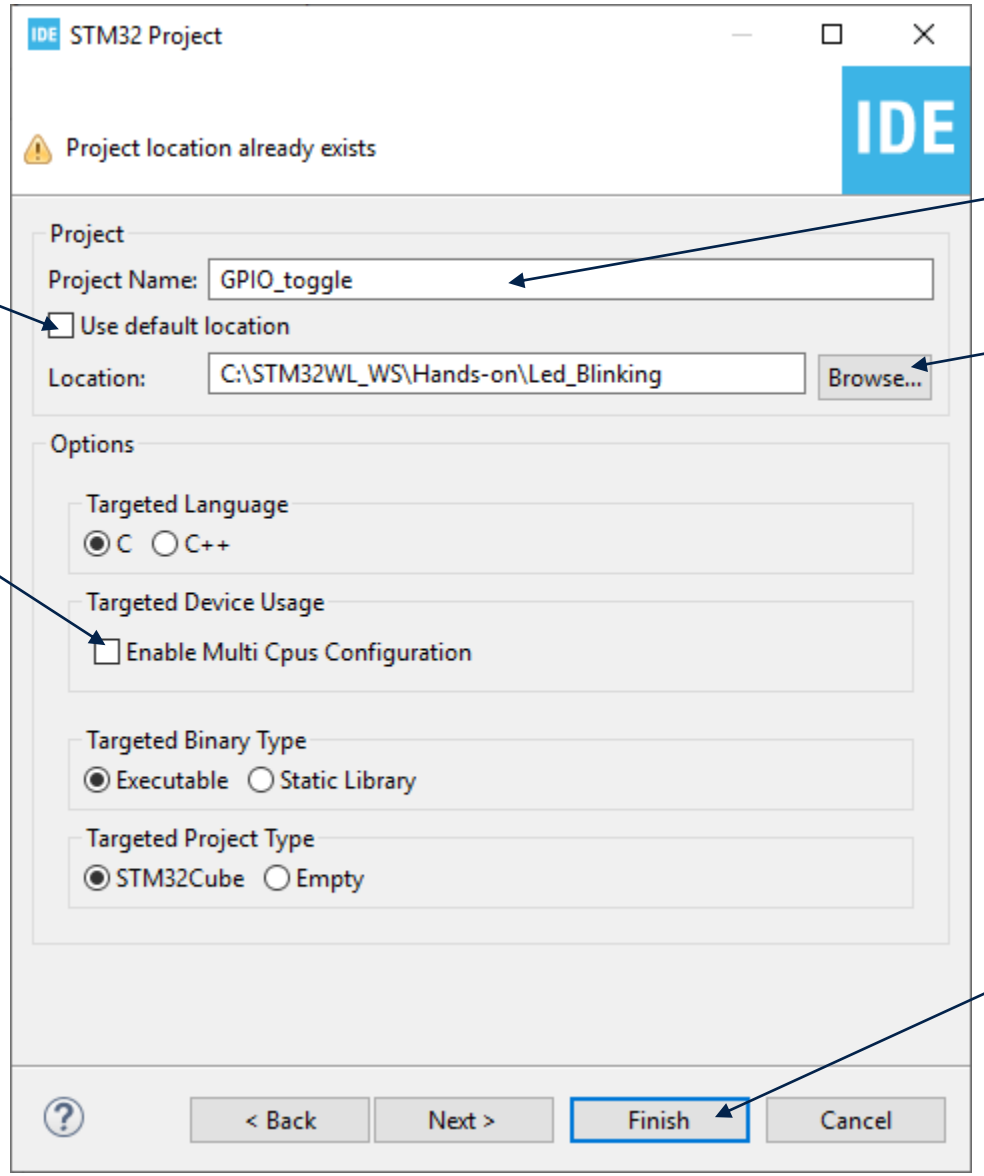
1. Open STM32CubeIDE v1.5.0

Hands-on

2. File → New → STM32 Project → Part Number STM32WL55JC



Enter project name and location



Uncheck

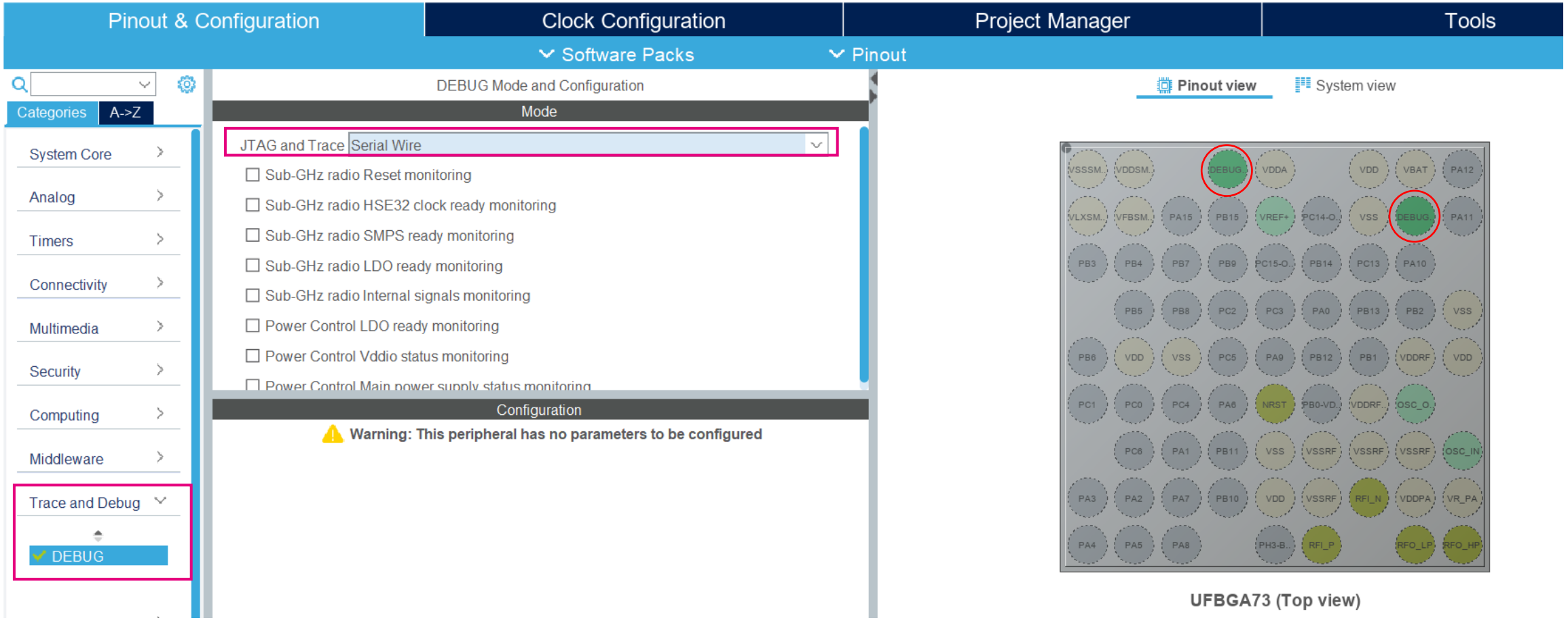
Uncheck Cortex-M4 only

GPIO_toggle

...\STM32_WL\Hands-on\Led_Blinking

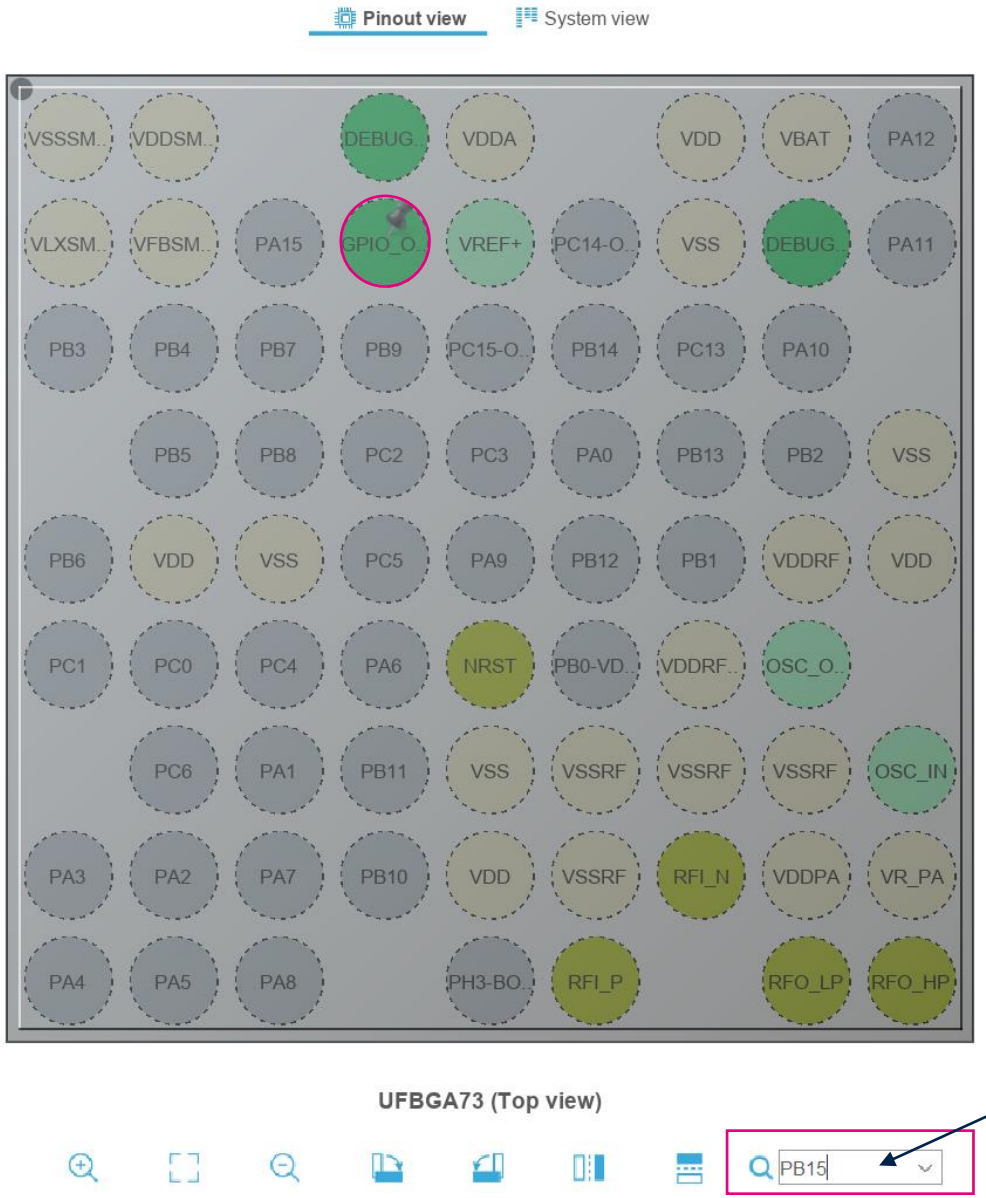
Press when finished, wait until project creation

Select debug interface as “Serial Wire”



Hands-on

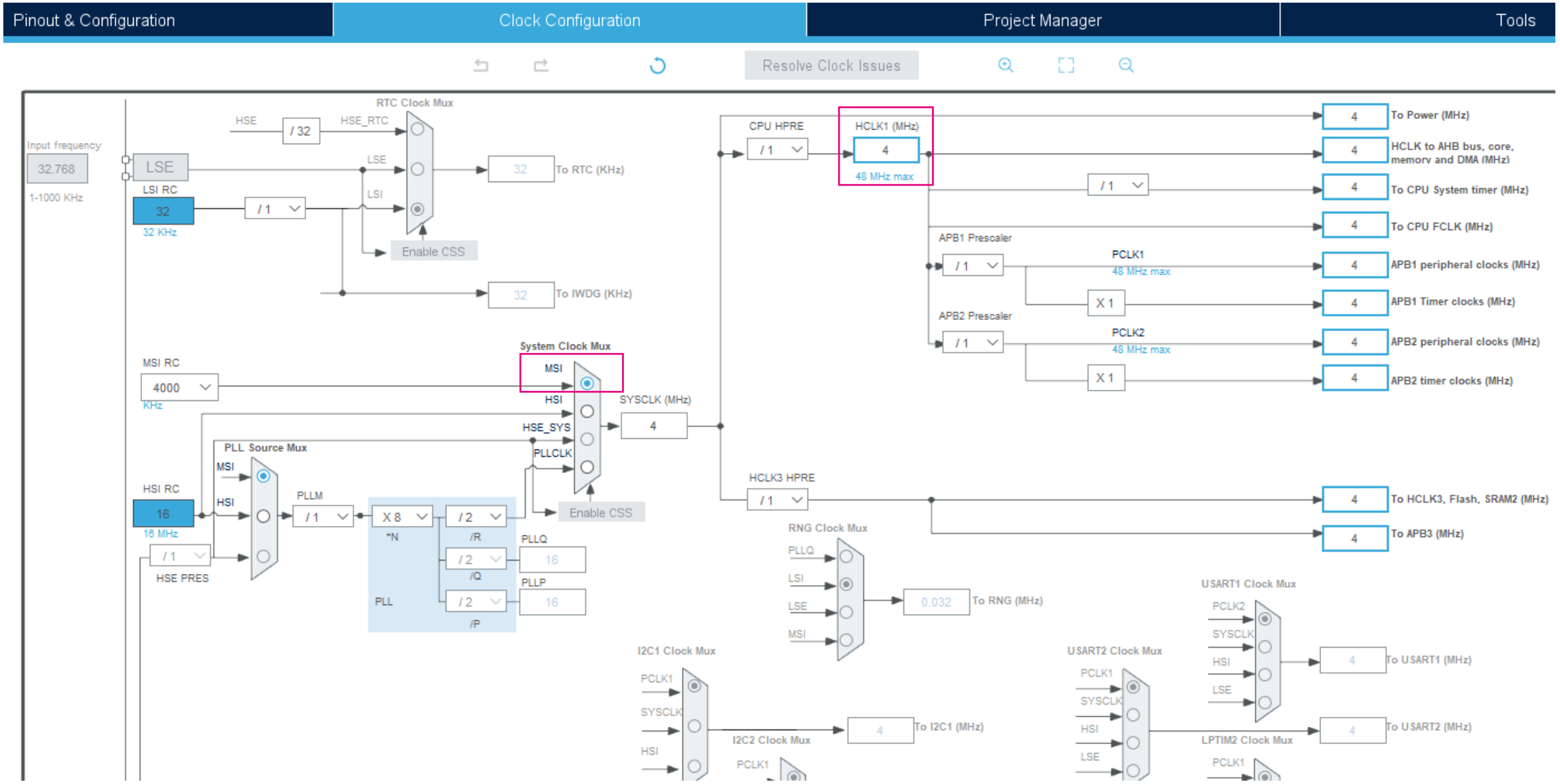
Configure PB15 as “Output Push-Pull” (Blue LED is connected to)



It is possible to use find option

Keep the default clock tree configuration: MSI = 4MHz system clock

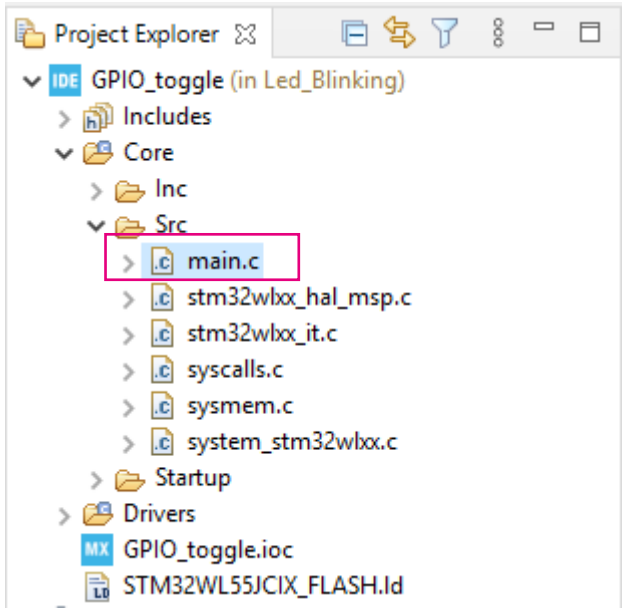
Hands-on



Hands-on

1. Generate code 

2. Open main main.c and navigate to main loop USER CODE BEGIN 3 comment



3. Add user codev to toggle GPIO PB15

```
/* Infinite loop */
  /* USER CODE BEGIN WHILE */
  while (1)
  {
    /* USER CODE END WHILE */

    /* USER CODE BEGIN 3 */
    HAL_GPIO_TogglePin(GPIOB,GPIO_PIN_15);
    HAL_Delay(1000);
  }
  /* USER CODE END 3 */
```

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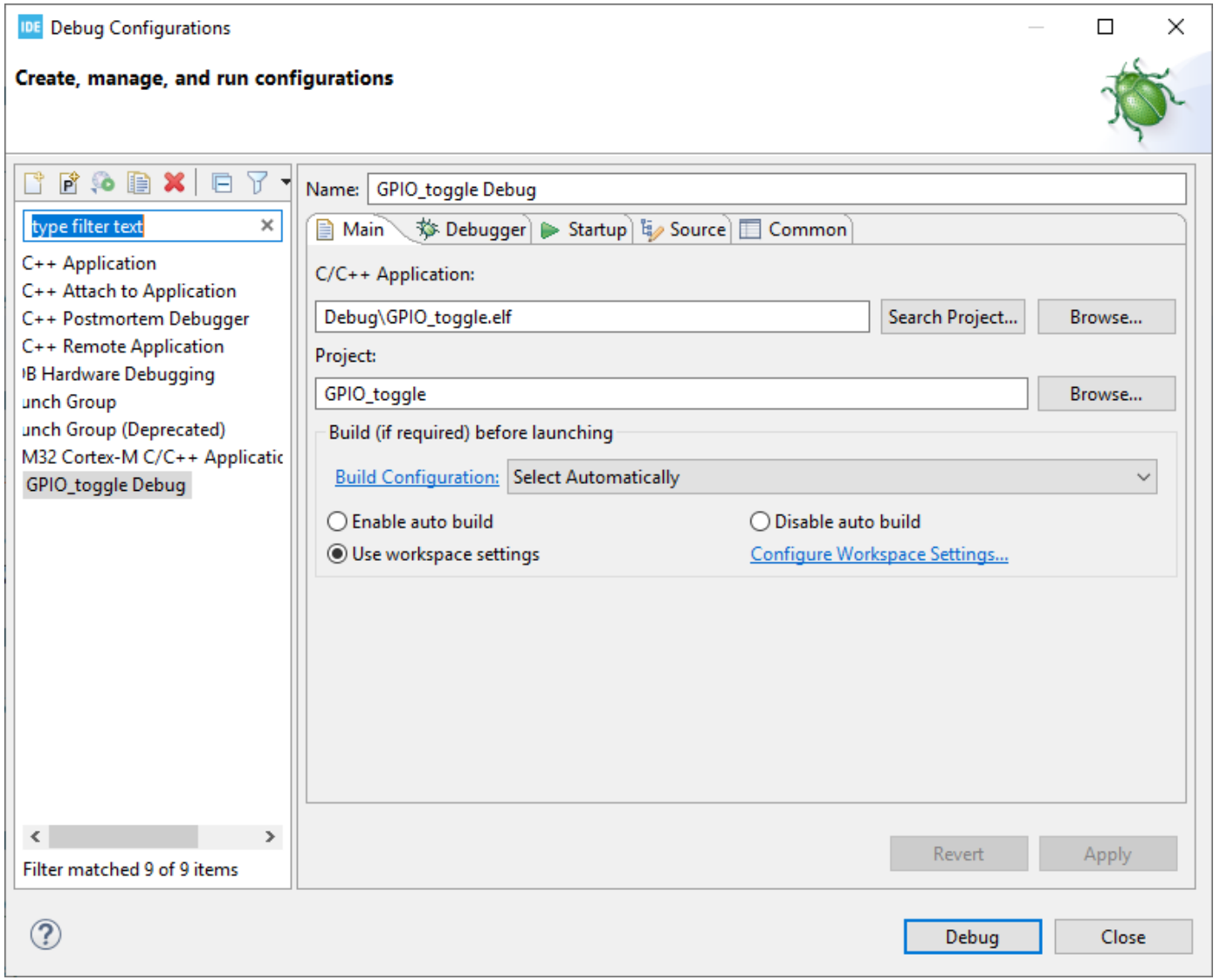
Hands-on

Build

Debug

Run



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Thank you

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