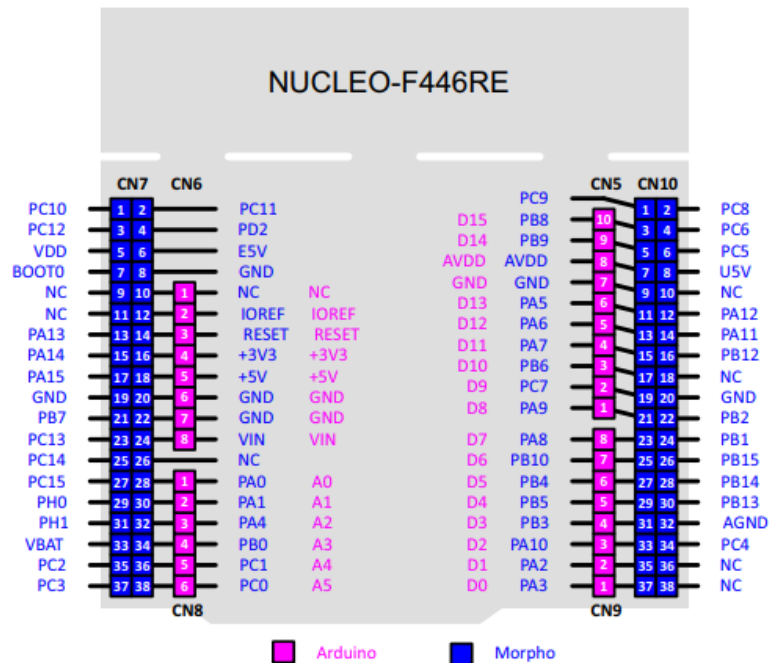


# NUCLEO 64 - STM32F446RE

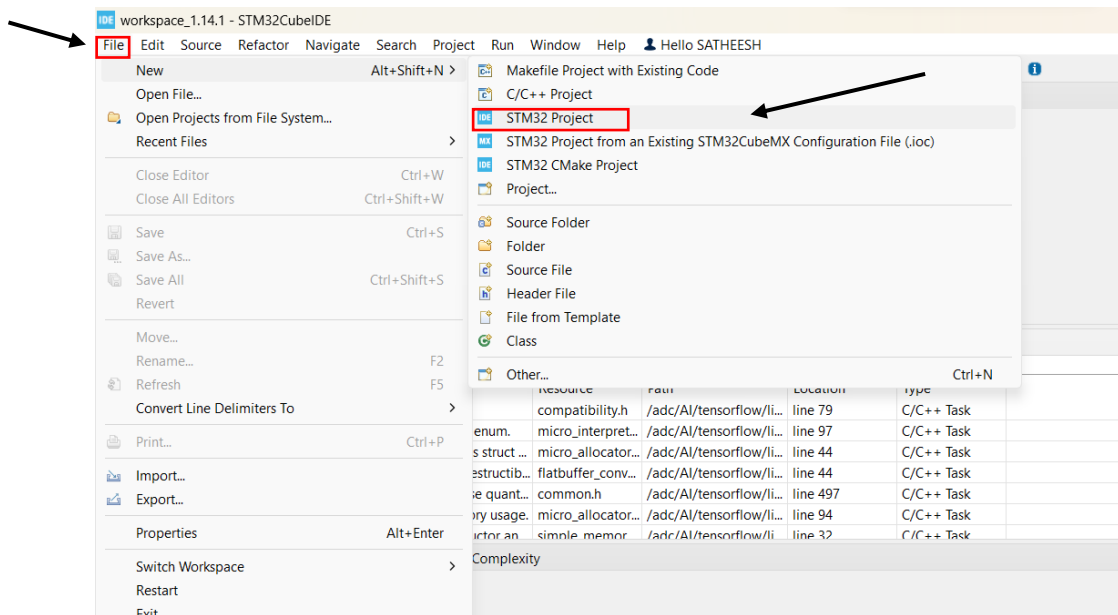


## I. LED Blink:

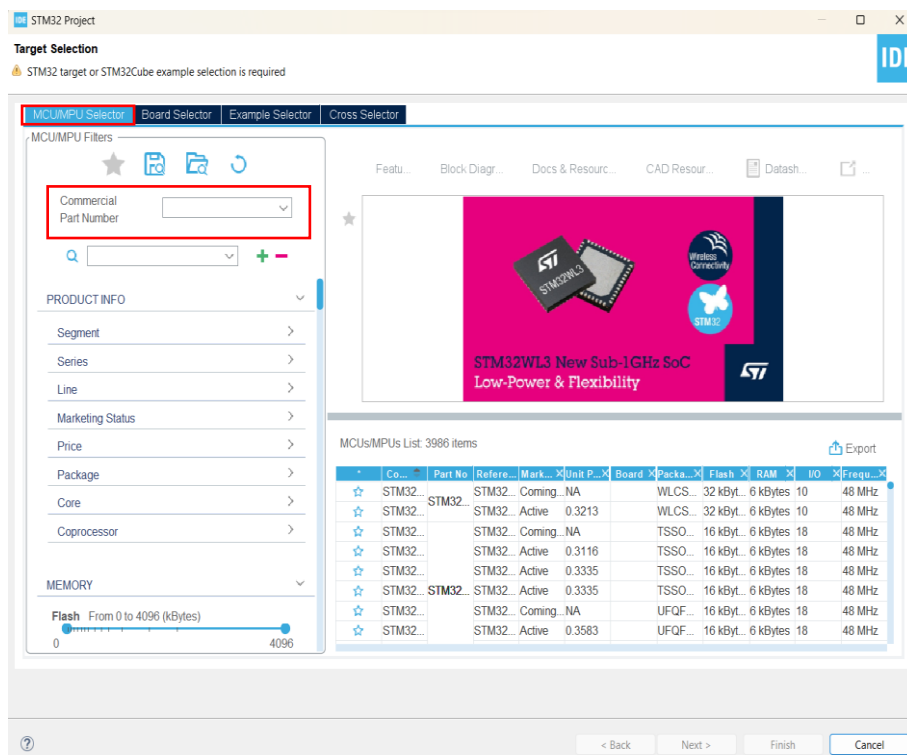
PA5 ----- LED (+)

GND ----- LED (-)

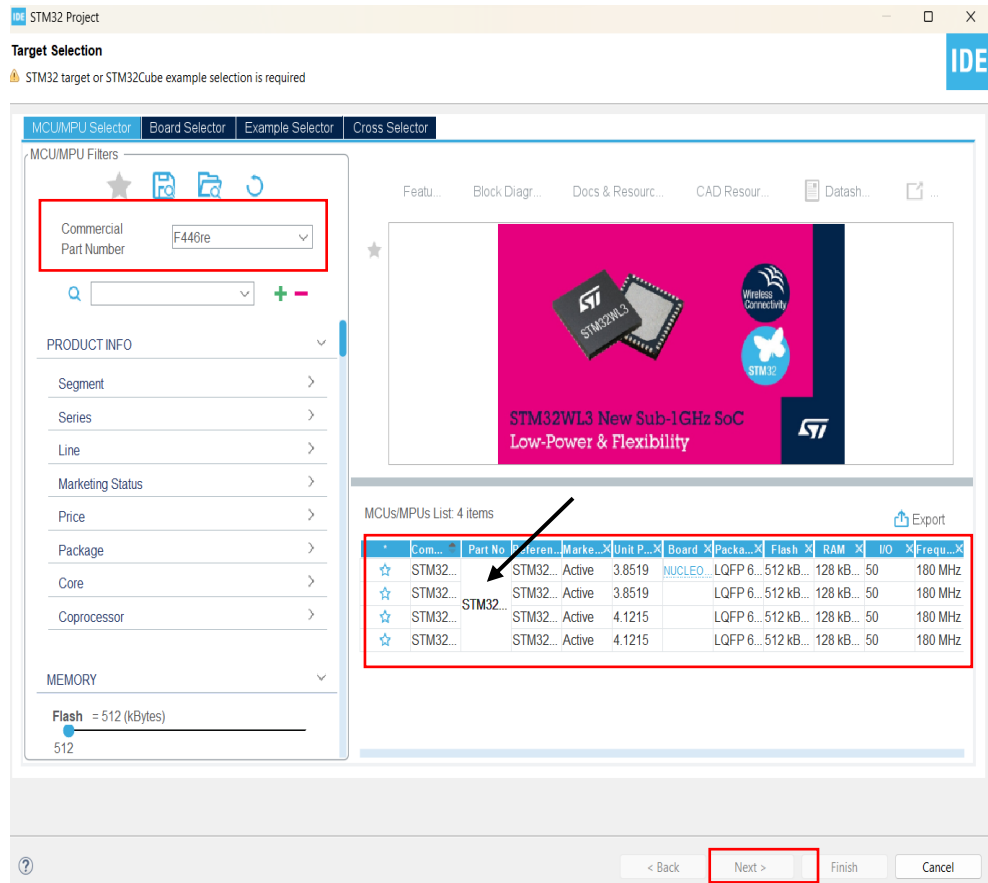
**Note:** PA5 is onboard LED



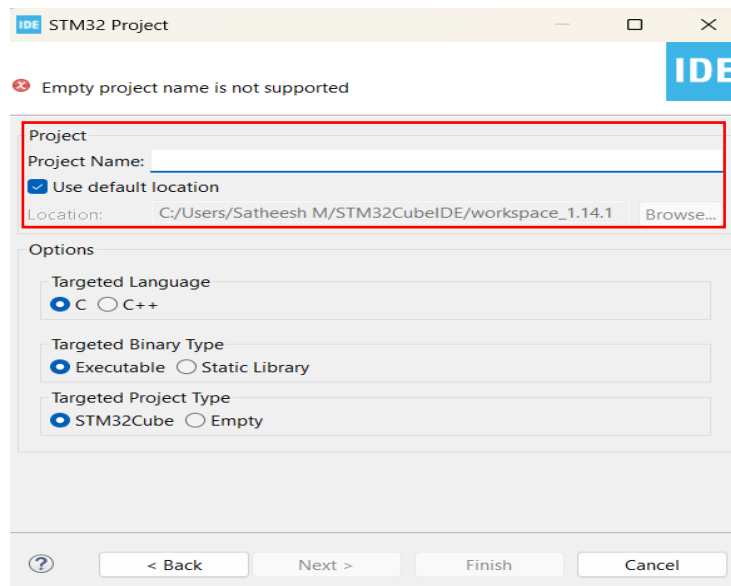
## 1) Create a project.



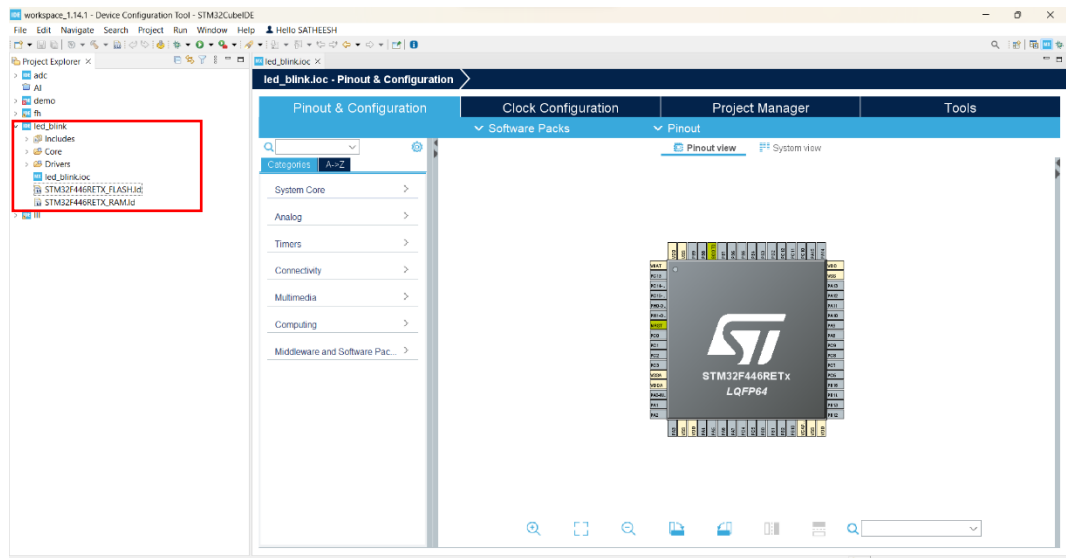
- 1) Select MCU Selector / Board Selector option.
- 2) In Commercial Part Number ---- Enter a Board series number ---- F446RE



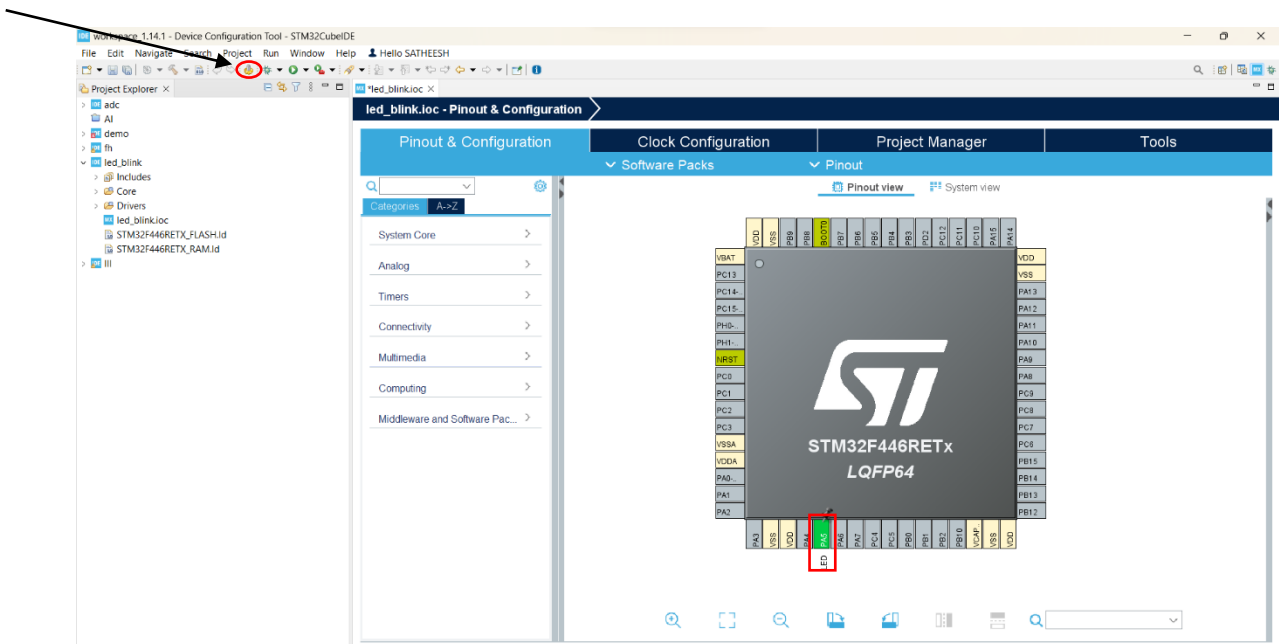
1) You can see the Board options ----- select and next.



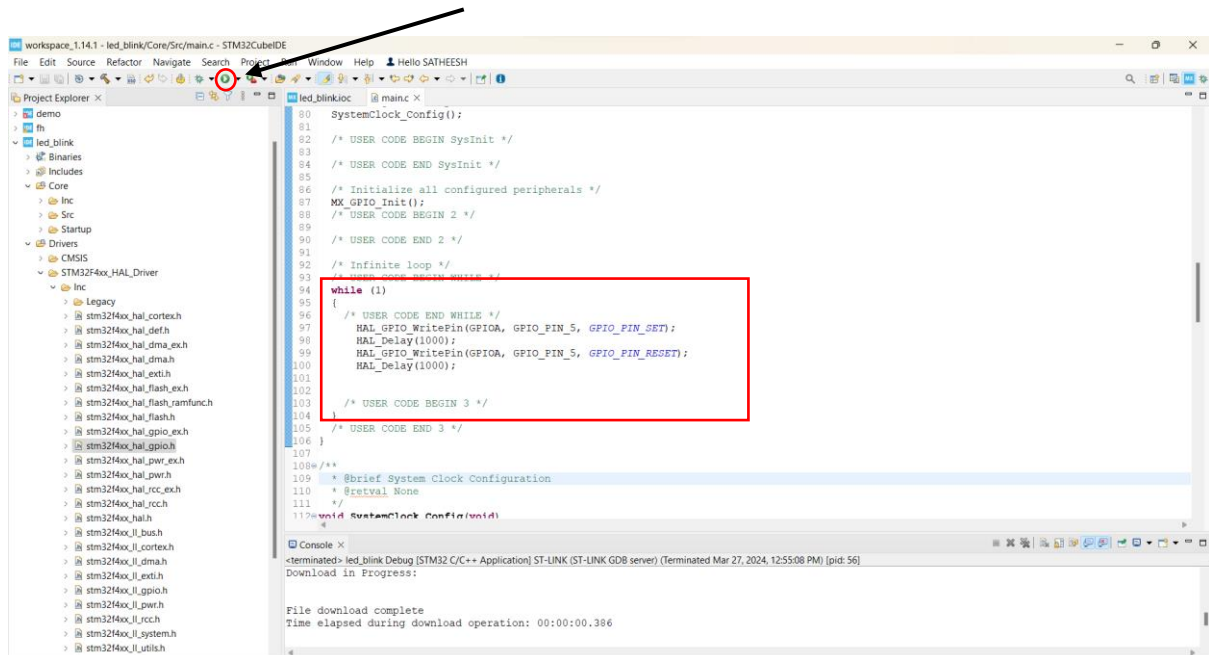
- 1) Give a project name here.
- 2) Then click Finish option.



- 1) You can see your project files in your left side of the workspace.
- 2) Then click PA5 as GPIO\_Output and give a name LED.



- 1) If you want to give a name >> Right click >> Enter User Label >> Give a Name.
- 2) Then Click Code Generation option.



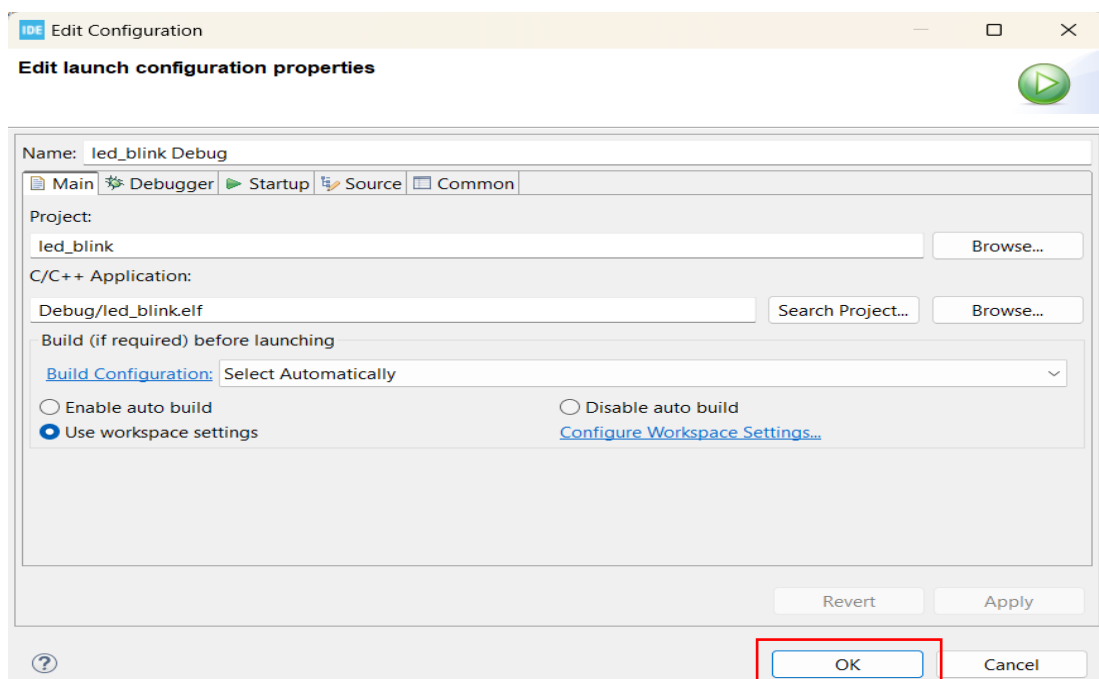
- 1) After the code is generated --- Enter your code in the while loop.
- 2) Then click run.

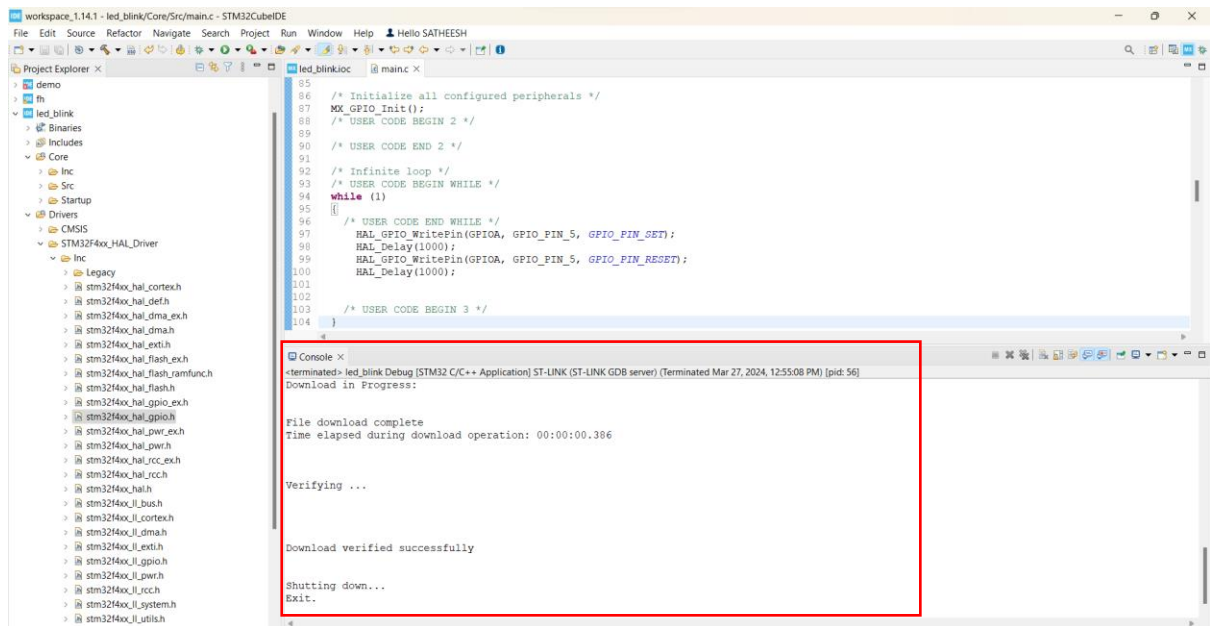
### Code:

```

while (1)
{
    /* USER CODE END WHILE */
    HAL_GPIO_WritePin(GPIOA, GPIO_PIN_5, GPIO_PIN_SET);
    HAL_Delay(1000);
    HAL_GPIO_WritePin(GPIOA, GPIO_PIN_5, GPIO_PIN_RESET);
    HAL_Delay(1000);
    /* USER CODE BEGIN 3 */
}

```





1) If there is no error then check your onboard LED.