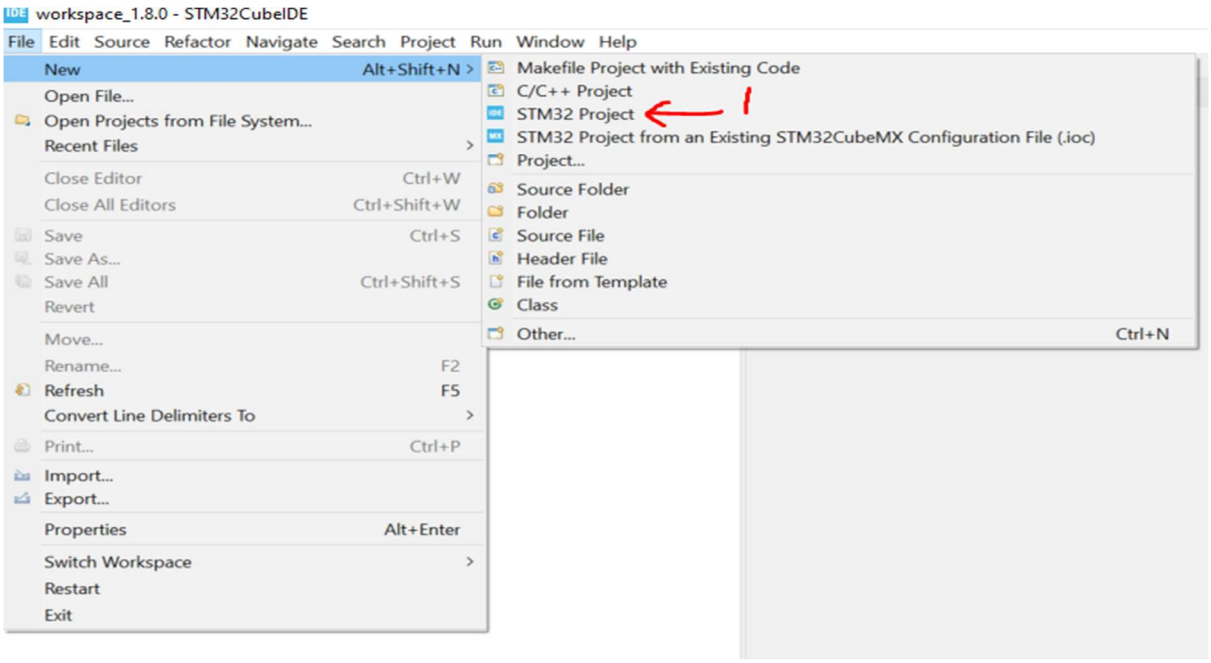
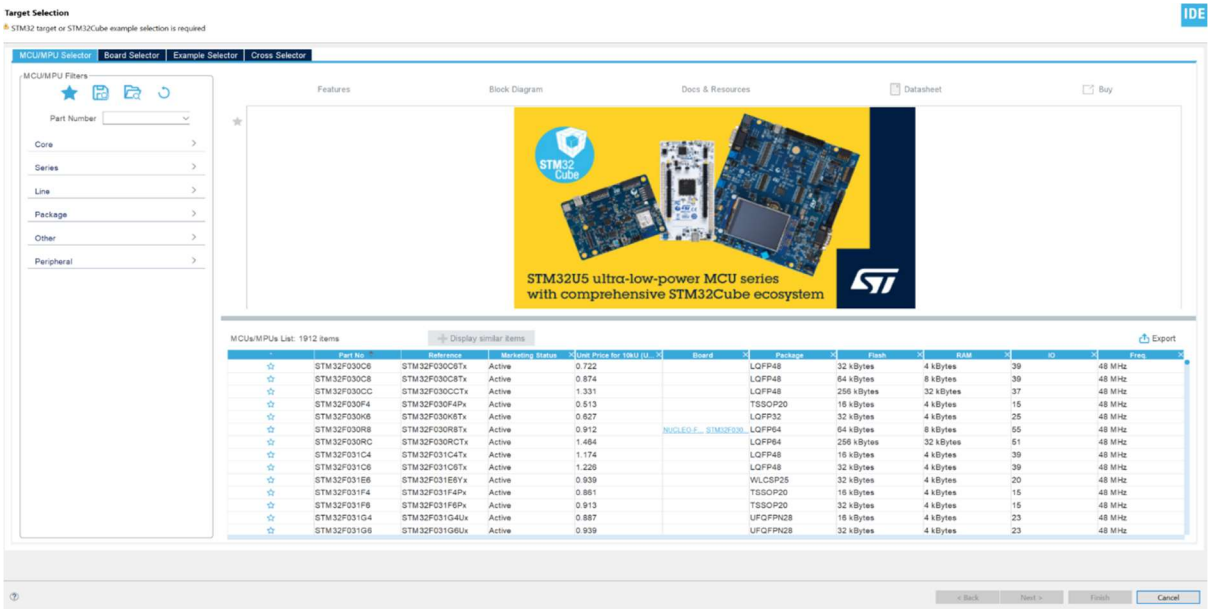
Aim: To blink the LED with help of Nucleo-L010RB Board.

Software IDE: STM32CubeIDE 1.8.0.

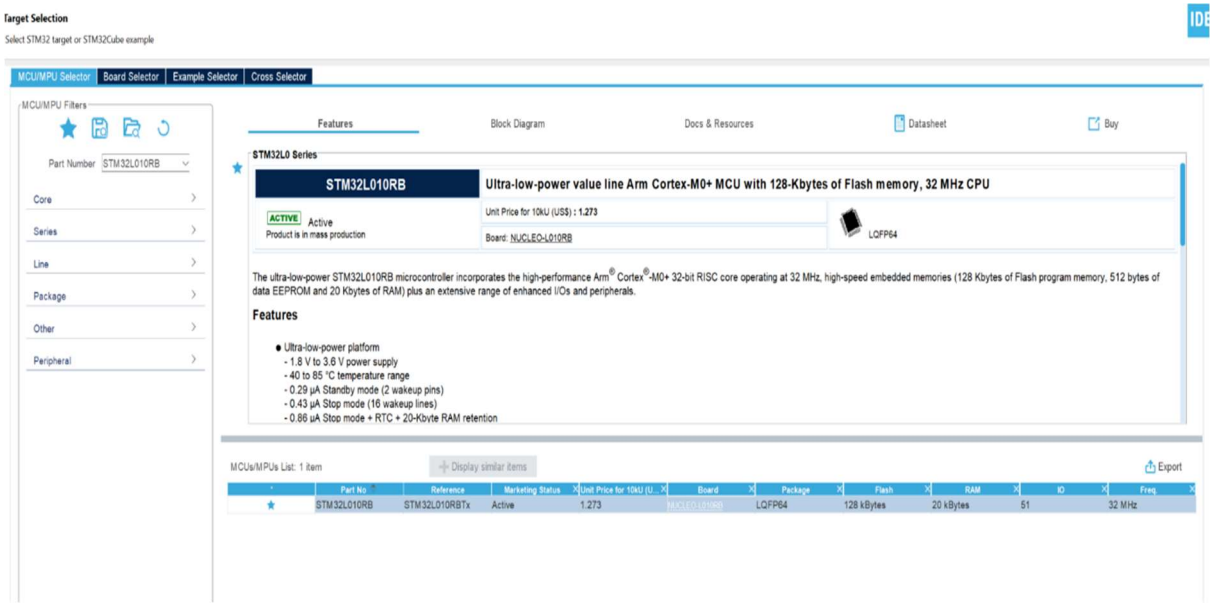
Step 1: Open STMCubeIDE and click on STM32 Project. This will open a new fresh project. It will take some time to download require setup for board.



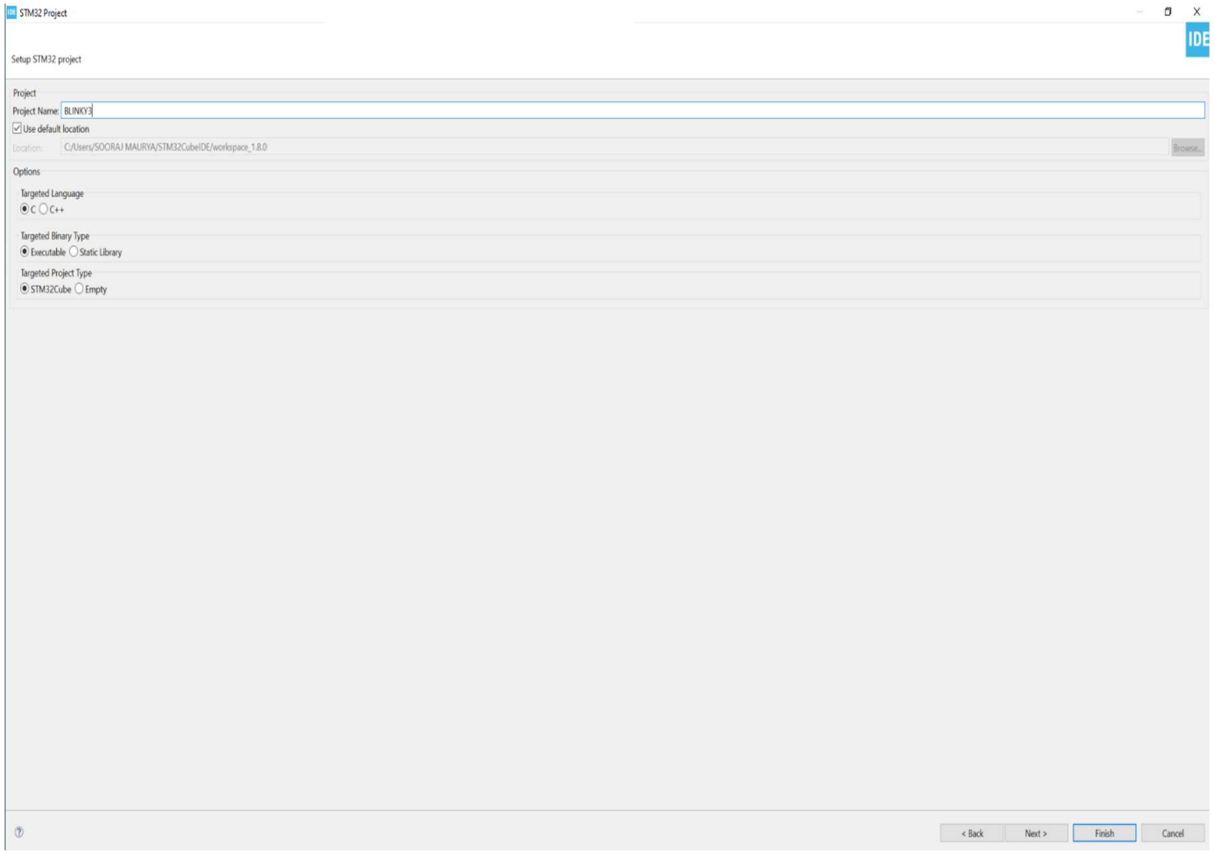
Step 2: A new tab will open, Enter the Part Number of your Dev Board , (mine NUCLEO-L010RB)



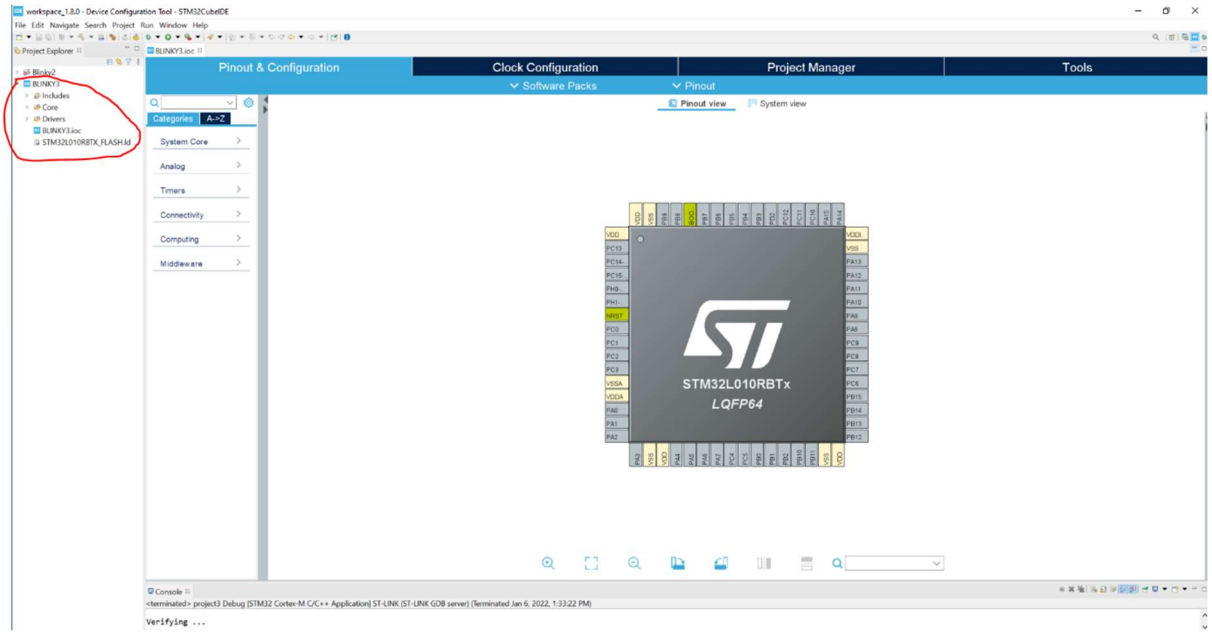
STEP 3: Select your board, and proceed further, you can also download required datasheet for your dev Board.



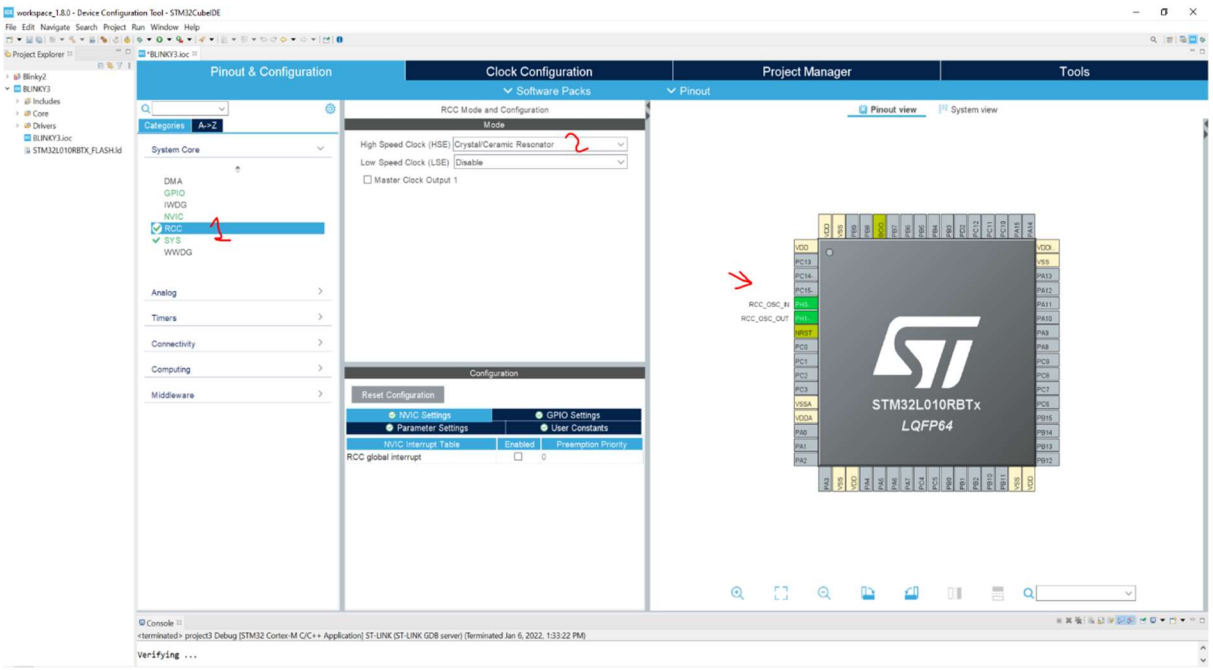
STEP 4: Name your Project and click on Finish.



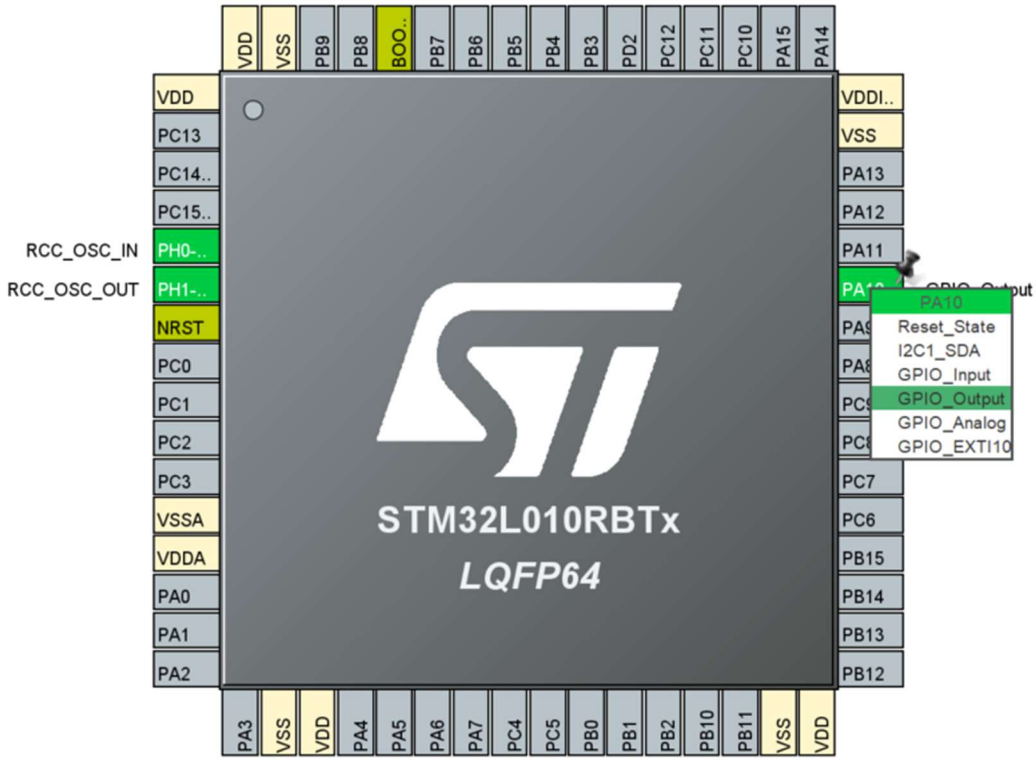
STEP 5: Setup like this will appear on Desktop, with all required file such as core driver include.



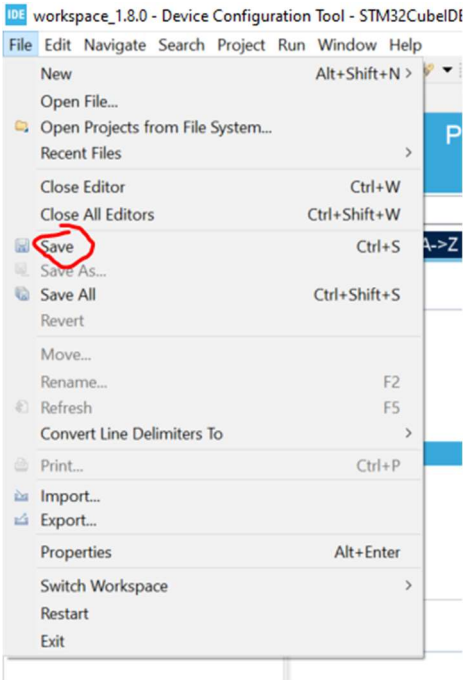
STEP 6: Click on RCC and from the option High Speed clock select Crystal ceramic resonator.



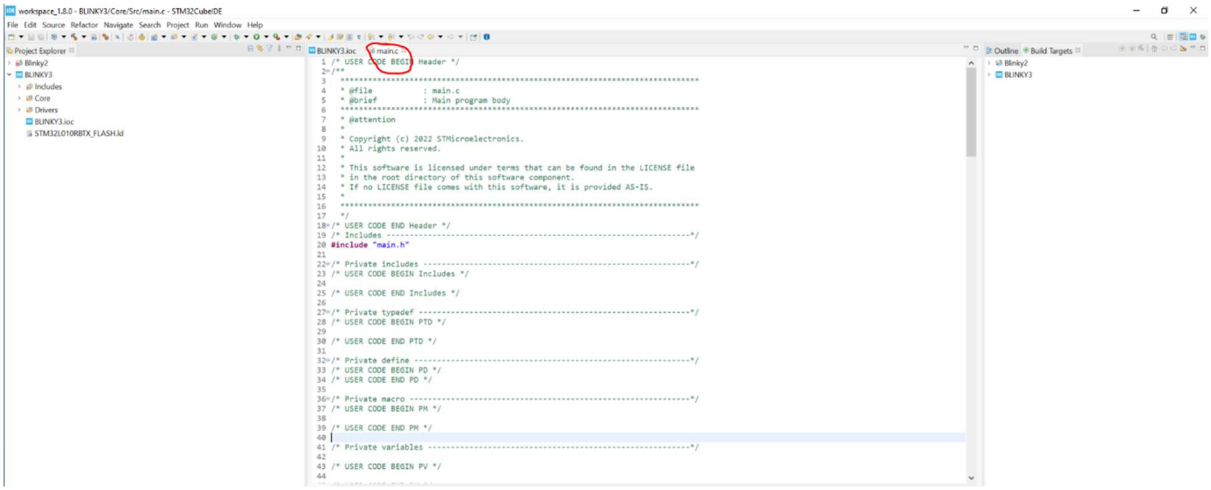
STEP 7: Select any pin to mark as OUTPUT , I am selecting pin 10 & pin 9 of port A.



Step 8: Click on Save Button , this will generates a new file for coding namely main.c



STEP 9: MAIN.C FILE, you can remove or keep comment.

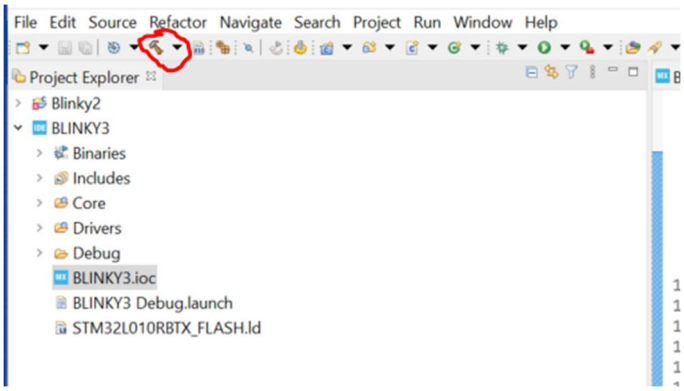


STEP 10

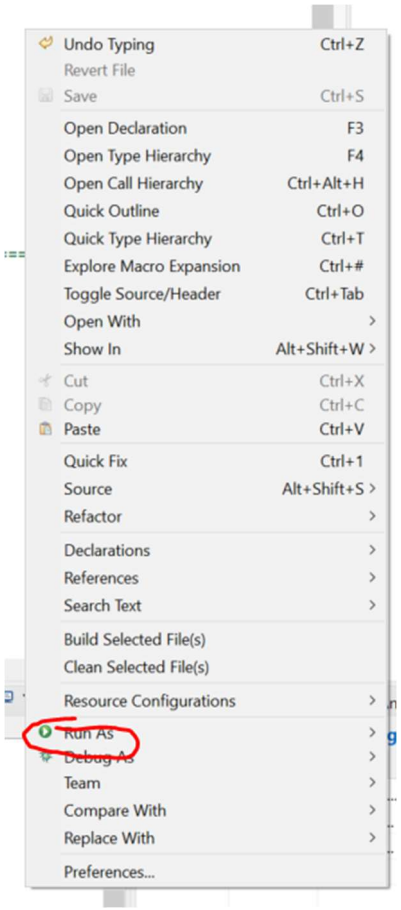
Simple blink led Program for pin9 & pin 10 of PORT A.

```
#include "main.h"
void SystemClock_Config(void);
static void MX_GPIO_Init(void);
int main(void)
{

  HAL_Init();
  SystemClock_Config();
  MX_GPIO_Init();
  while (1)
  {
      HAL_GPIO_WritePin(GPIOA, GPIO_PIN_9, GPIO_PIN_SET);
      HAL_Delay(500);
      HAL_GPIO_WritePin(GPIOA, GPIO_PIN_9, GPIO_PIN_RESET);
      HAL_Delay(500);
      HAL_GPIO_WritePin(GPIOA, GPIO_PIN_10, GPIO_PIN_SET);
      HAL_Delay(500);
      HAL_GPIO_WritePin(GPIOA, GPIO_PIN_10, GPIO_PIN_RESET);
      HAL_Delay(500);


  }
}

/*=============================================================================================================
```

STEP 11: Click on hammer symbol it will build code.



STEP 12: Connect your NUCLEO BOARD WITH PC/LAPTOP and click on RUN AS .



STEP13: Click on OK … keep as default. Now you see your PORTA9, PORTA10 blink.