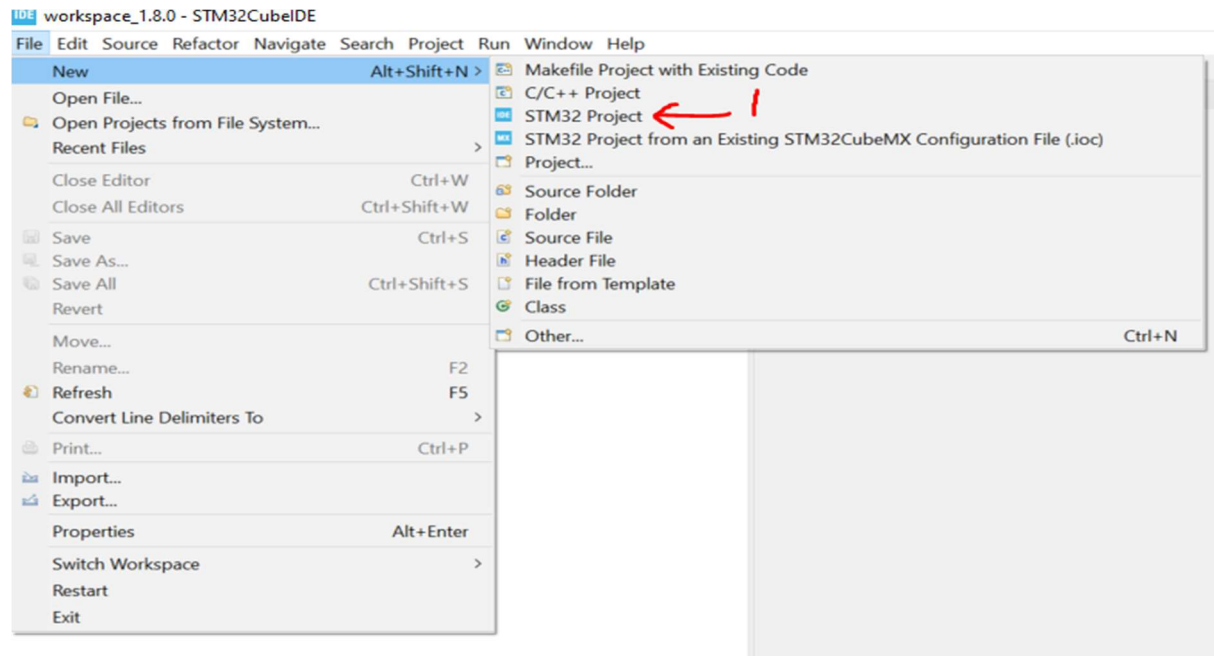


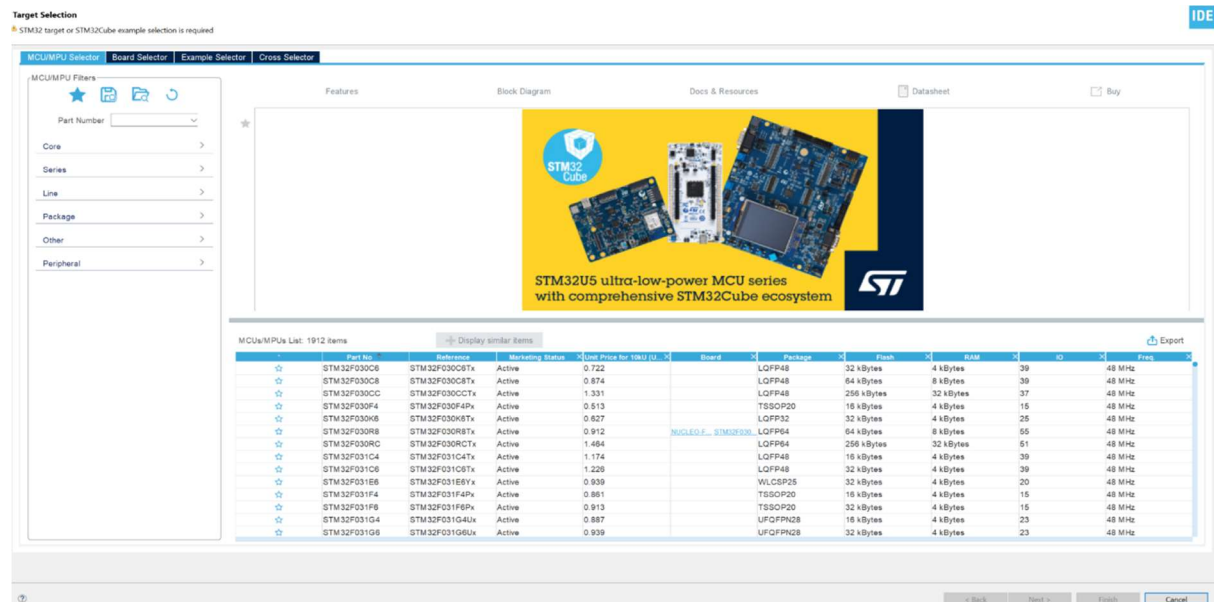
**Aim: To blink the LED with help of Nucleo-L010RB Board.**

**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.

Target Selection  
Select STM32 target or STM32Cube example

MCUMPU Selector Board Selector Example Selector Cross Selector

MCUMPU Filters

Part Number: STM32L010RB

Core >

Series >

Line >

Package >

Other >

Peripheral >

Features

Block Diagram

Docs & Resources

Datasheet

Buy

STM32L0 Series

★

**STM32L010RB** Ultra-low-power value line Arm Cortex-M0+ MCU with 128-Kbytes of Flash memory, 32 MHz CPU

Unit Price for 10kU (US\$) : 1.273

Board: NUCLEO-L010RB

LOFP64

ACTIVE Active  
Product is in mass production

The ultra-low-power STM32L010RB microcontroller incorporates the high-performance Arm® Cortex®-M0+ 32-bit RISC core operating at 32 MHz, high-speed embedded memories (128 Kbytes of Flash program memory, 512 bytes of data EEPROM and 20 Kbytes of RAM) plus an extensive range of enhanced I/Os and peripherals.

Features

- Ultra-low-power platform
  - 1.8 V to 3.6 V power supply
  - 40 to 85 °C temperature range
  - 0.29 µA Standby mode (2 wakeup pins)
  - 0.43 µA Stop mode (16 wakeup lines)
  - 0.88 µA Stop mode + RTC + 20-Kbyte RAM retention

MCUs/MPUs List: 1 item

Display similar items

Export

★	Part No	Reference	Marketing Status	Unit Price for 10kU (U.S\$)	Board	Package	Flash	RAM	ID	Freq
★	STM32L010RB	STM32L010RBx	Active	1.273	NUCLEO-L010RB	LOFP64	128 kBytes	20 kBytes	51	32 MHz

**STEP 4:** Name your Project and click on Finish.

STM32 Project

Setup STM32 project

Project

Project Name: BLINO3

☒ Use default location

Location: C:\Users\SOORAJ\MAURIA\STM32Cube\IDE\workspace\_1.8.0

Options

Targeted Language

☒ C ☐ C++

Targeted Binary Type

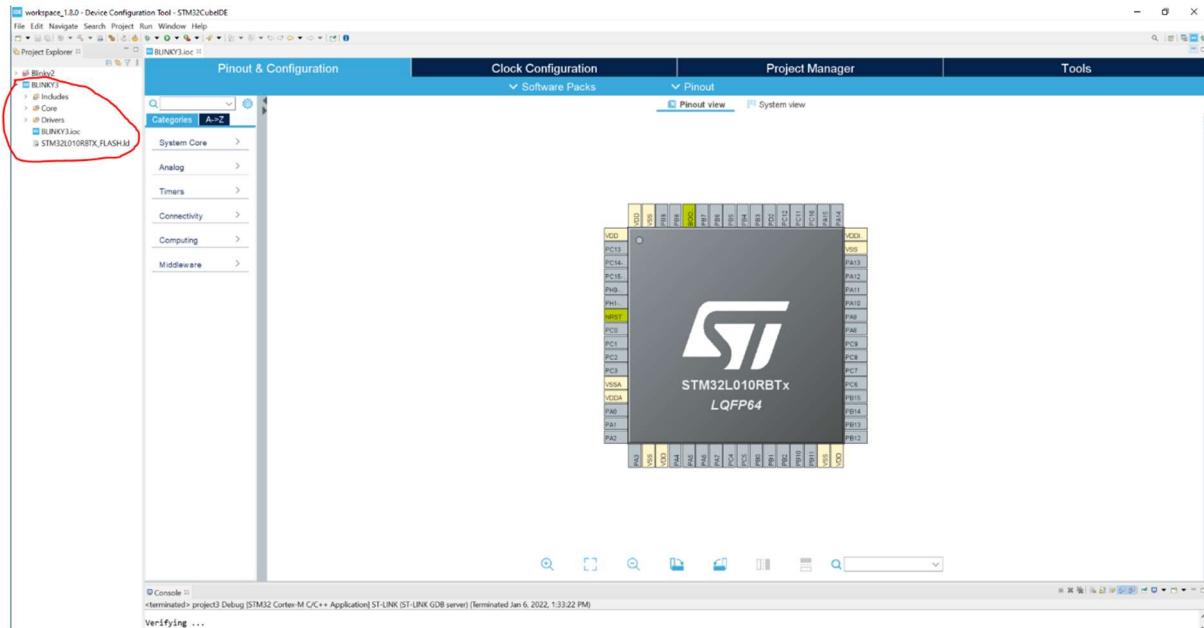
☒ Executable ☐ Static Library

Targeted Project Type

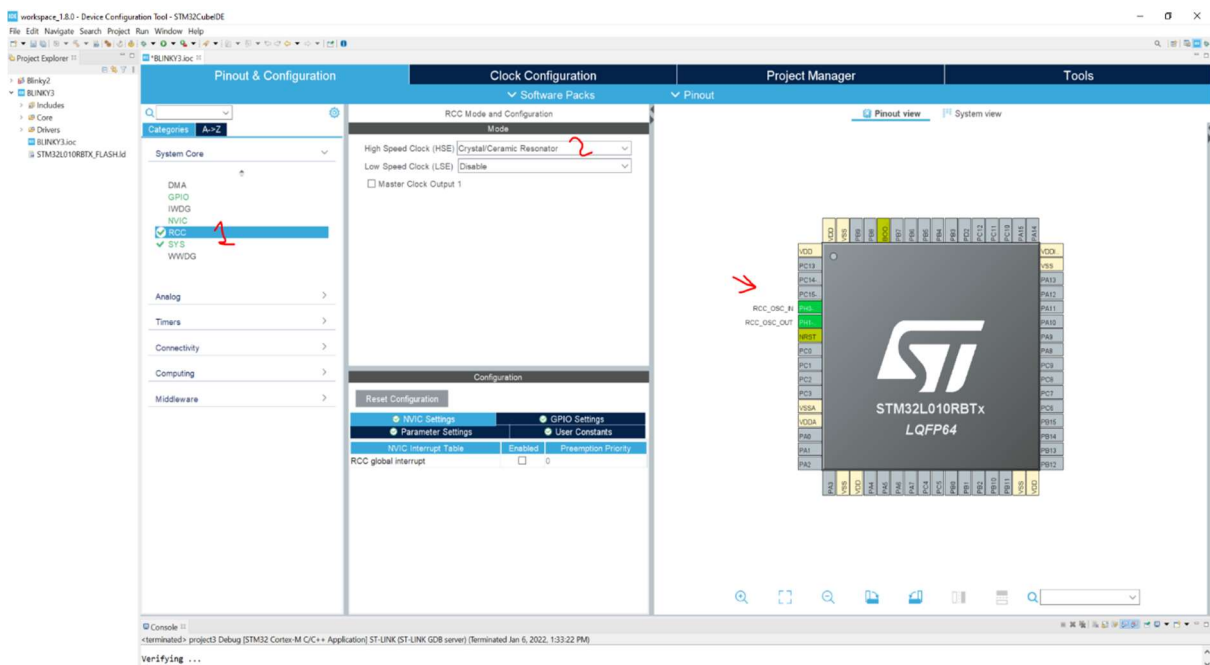
☒ STM32Cube ☐ Empty

< Back Next > Finish Cancel

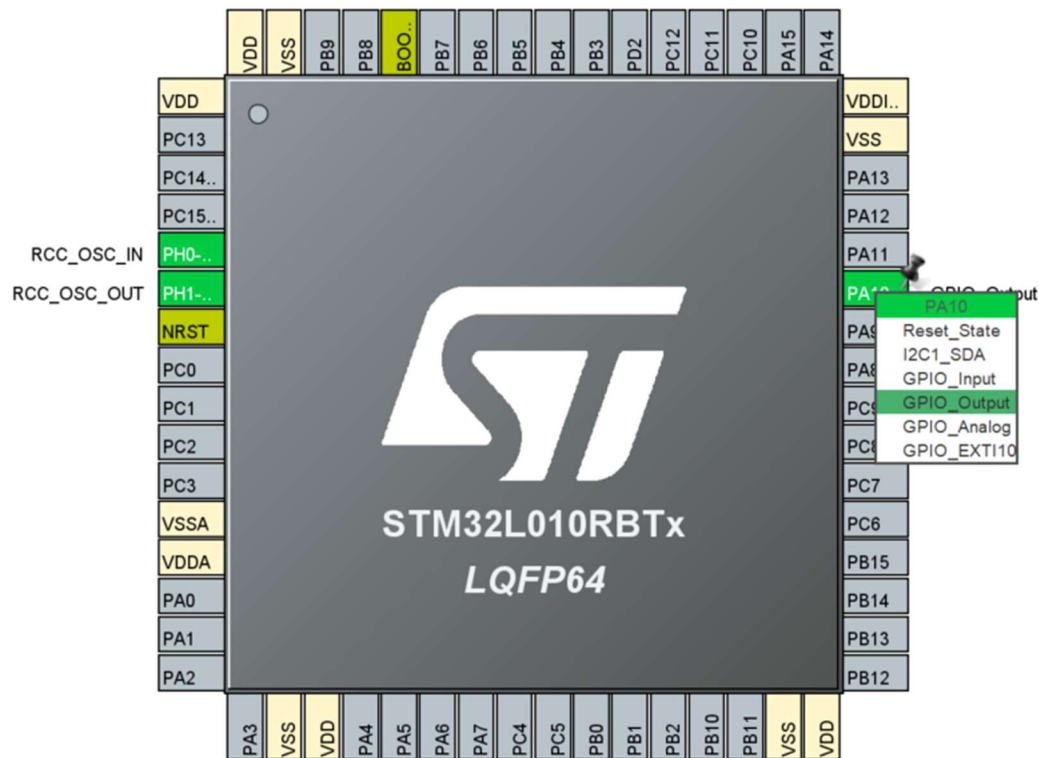
**STEP 5:** Setup like this will appear on Desktop, with all required file such as core driver include.



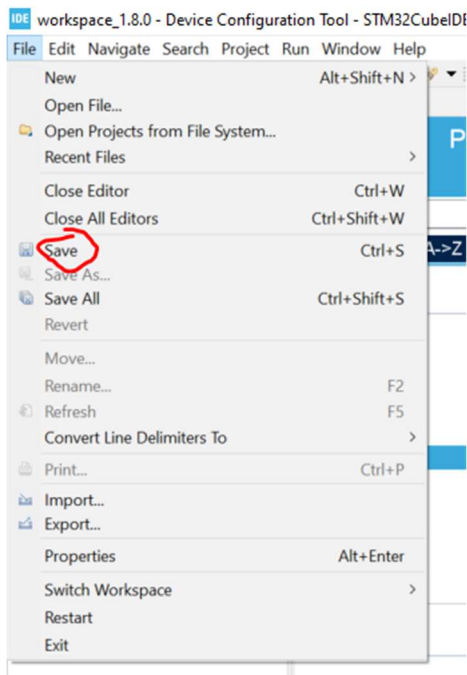
**STEP 6:** Click on RCC and from the option High Speed clock select Crystal ceramic resonator.



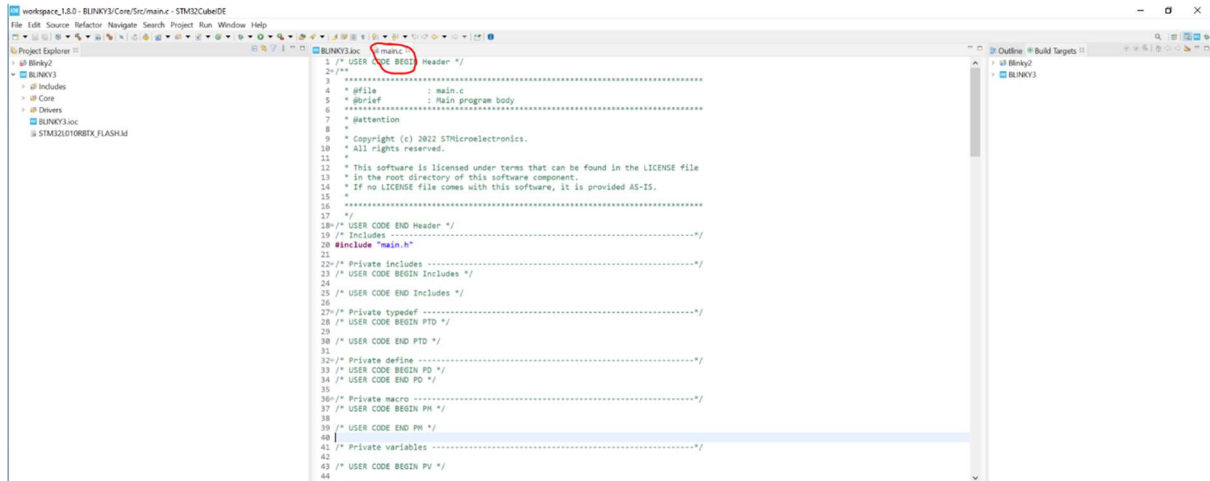
**STEP 7:** Select any pin to mark as OUTPUT , I am selecting pin 10 & pin 9 of port A.



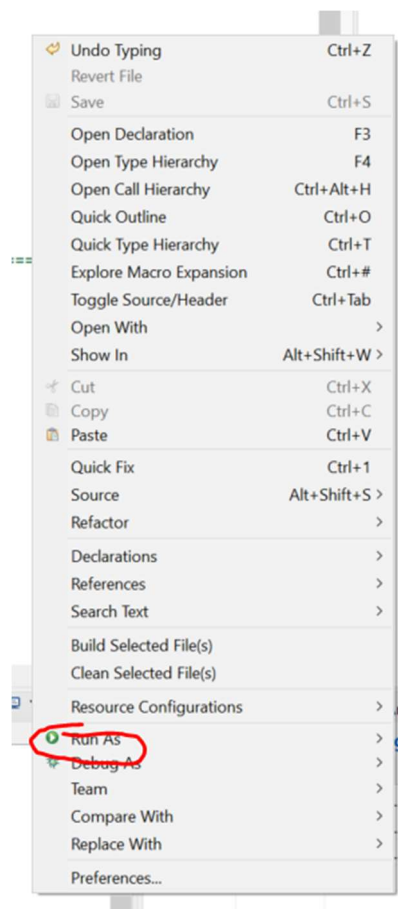
**Step 8:** Click on Save Button , this will generates a new file for coding namely main.c



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



**STEP 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.

