

## **EXPERIMENT – 1.1**

### **BLINK LED ON DEV BOARD/NODE**

#### **What will you learn from this module:**

How to blink onboard led using Development kit/Node.

#### **Requirements:**

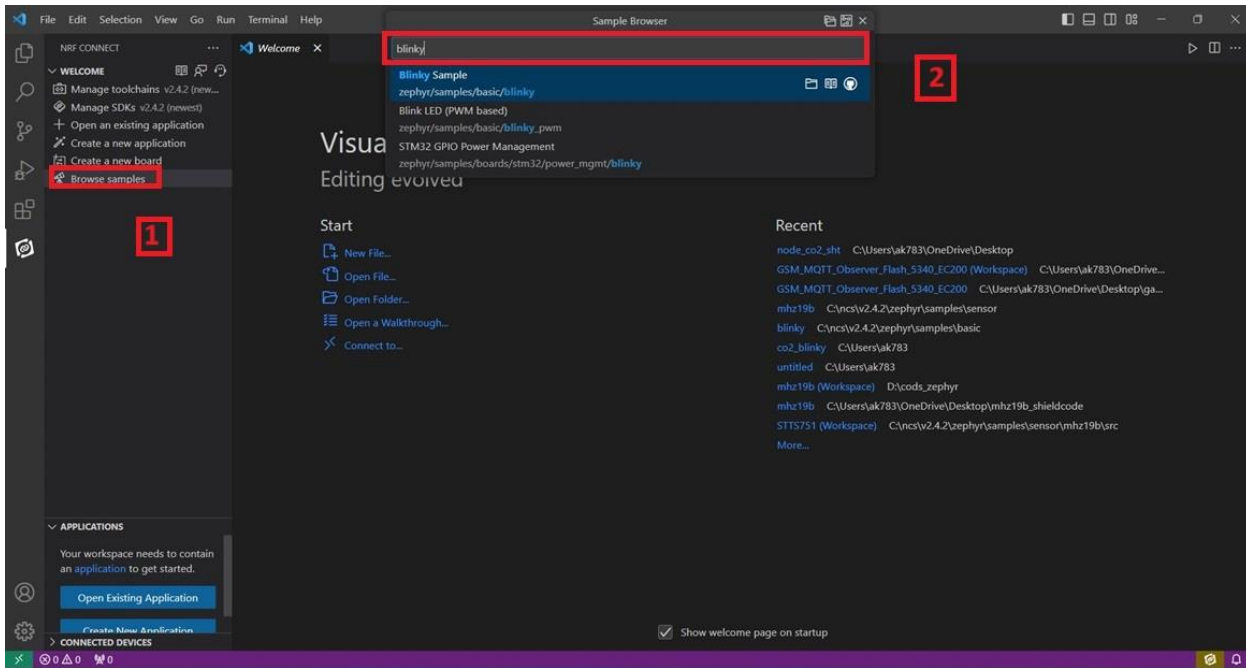
- nRF Connect for desktop software.
- nRF Command line tools.
- Visual studio code.
- USB cable.
- nRF52832 Development Board/Node.

#### **Prerequisites:**

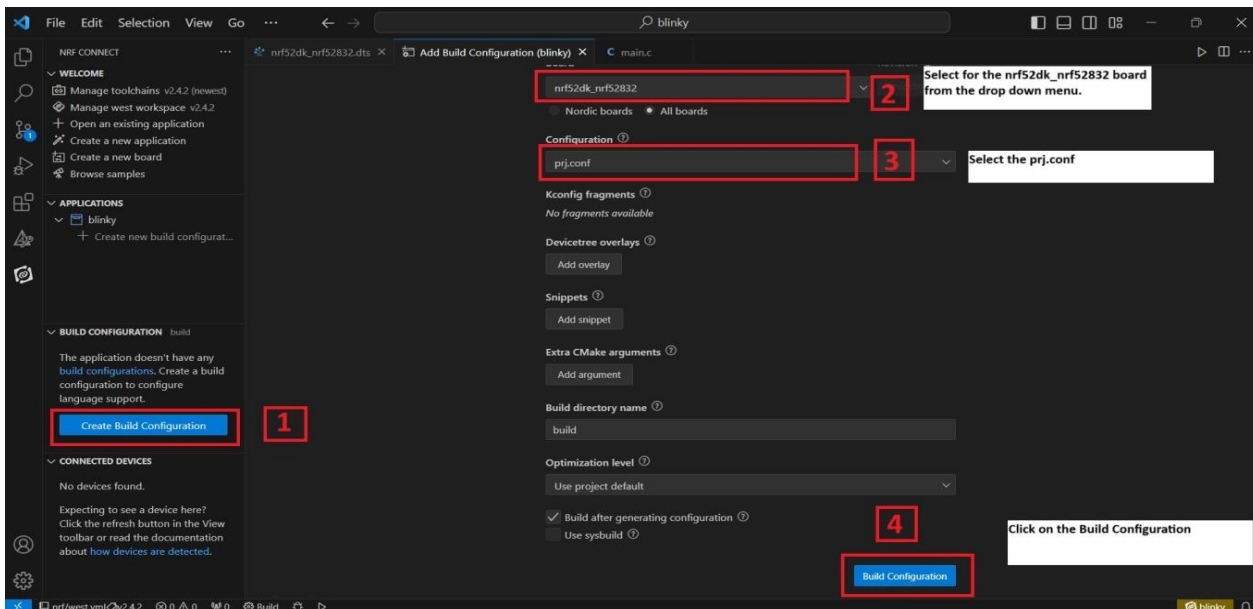
- Basic knowledge of C/C++
- Basic knowledge of communication protocol.
- Basic project setup.

# Setup and Configuration:

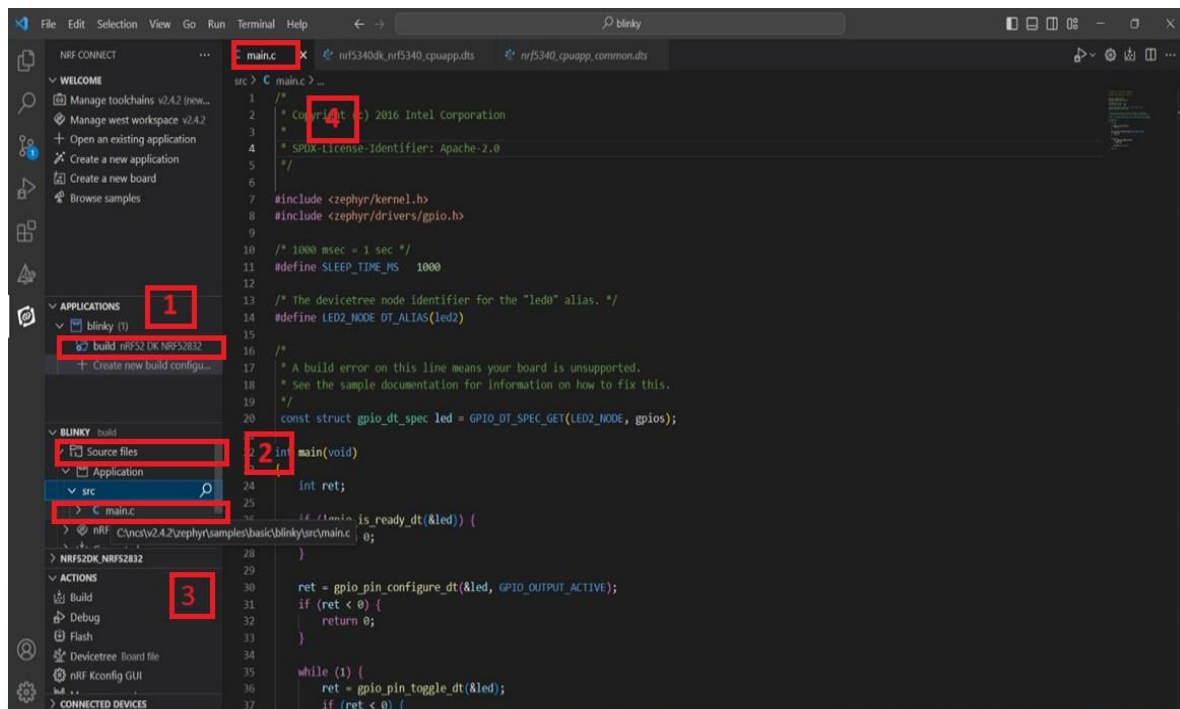
- Open VS Code and go to **Browse samples [1]** and search **Blinky [2]**.



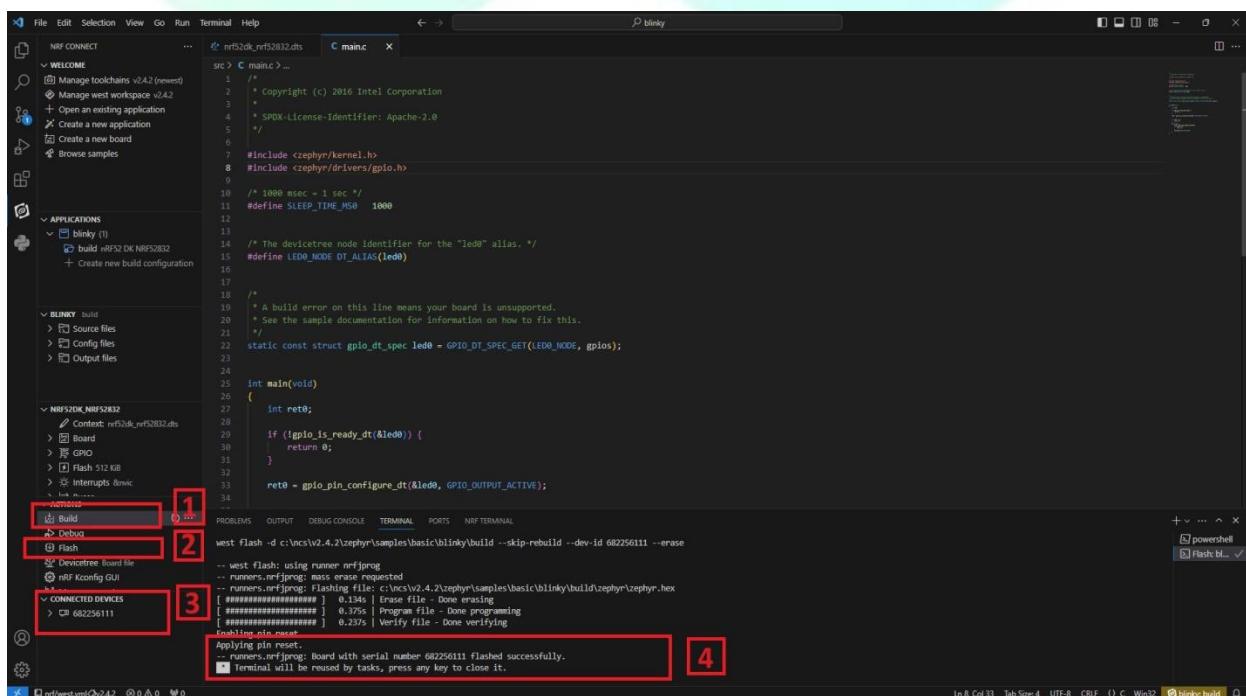
- Click on **Create new build configuration**. Here you can change the board version, if you are using nRF52832, then select **nrf52dk\_nrf52832** or you can change from dropdown menu for another version like nRF52833 etc.
- After that click on the Configuration and select **prj.config [3]** from dropdown menu and then click on the **Build Configuration [4]**.



- Go to source file, click **source file [2]** > click on **Application** > click on **src** > click on **main.c [3]**.
- After Click on **main.c** file and you will see the code on your screen [4].

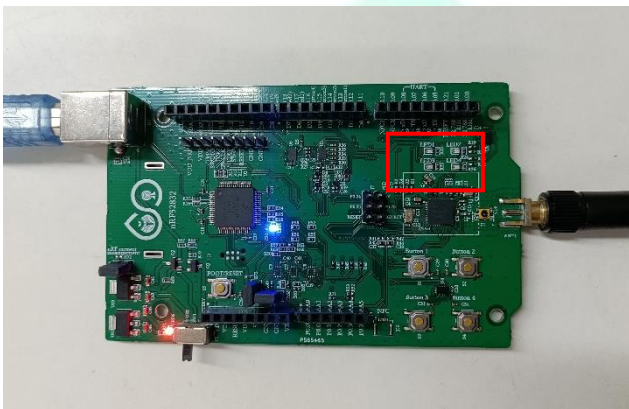


- Click on **Build [1]** configuration again and check the **CONNECTED DEVICES [2]**.
- If device id is visible, then **Flash [3]** the code in dev kit.
- If **flashed successfully [4]** message is displayed on serial terminal, then flash process is complete.

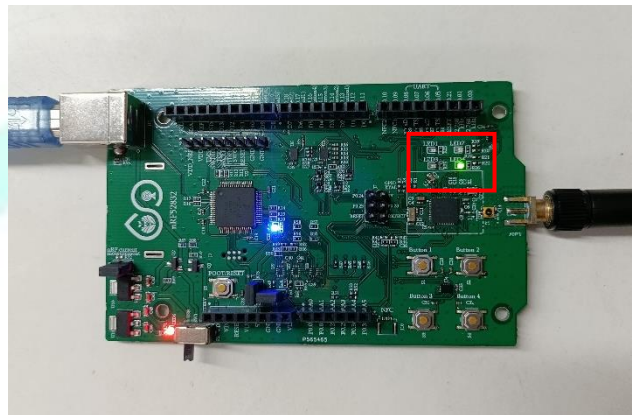


## ❖ OUTPUT

➤ nRF52832 board Before flash the code



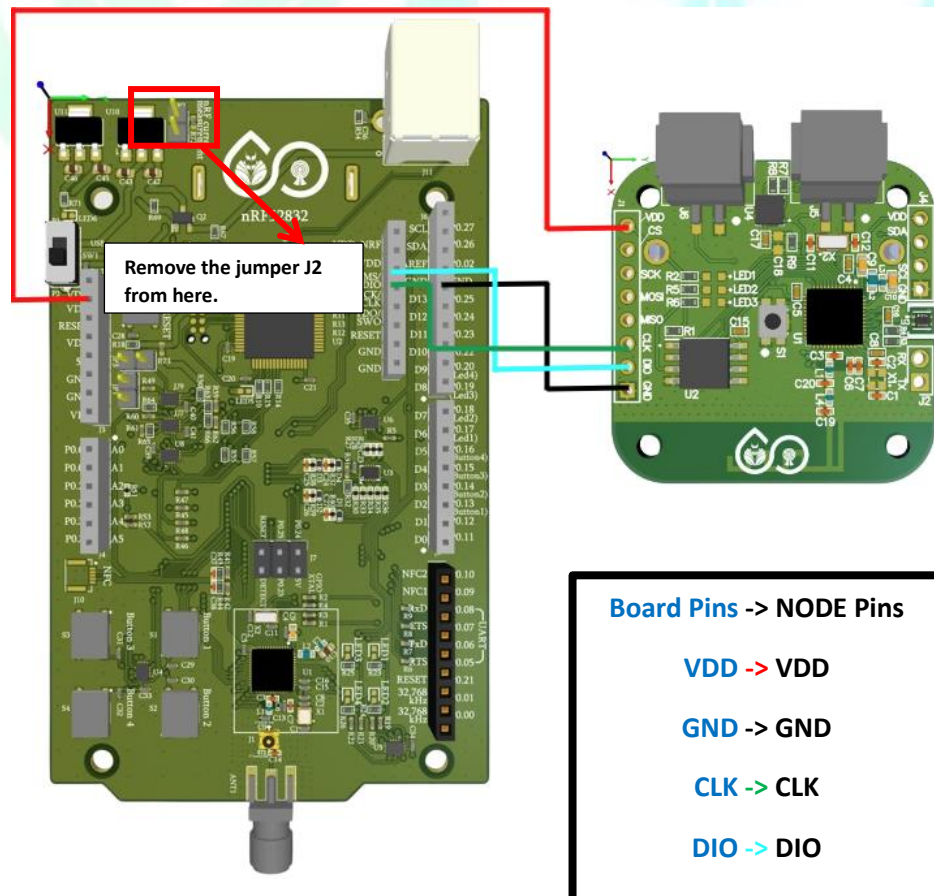
➤ nRF52832 board after flash the code



## ❖ WITH THE HELP OF NODE

- For Node programming remove the jumper J2 from the development board.
- Change the led0 Pin number in .dts file from 17 to 2
- Now flash the code with the help of nRF52832 development board as shown below in the figure.

## ❖ PIN CONFIGURATION





## ❖ OUTPUT

➤ NODE Before flash the code .



➤ NODE after flash the code.

