AWaDH
Agriculture and Water
Technology Development Hub

EXPERIMENT – 2.1

BLINK LED USING BUTTON ON DEV BOARD/NODE

What will you learn from this module:

Blink LED using button on Development Kit/ Node.

Requirements:

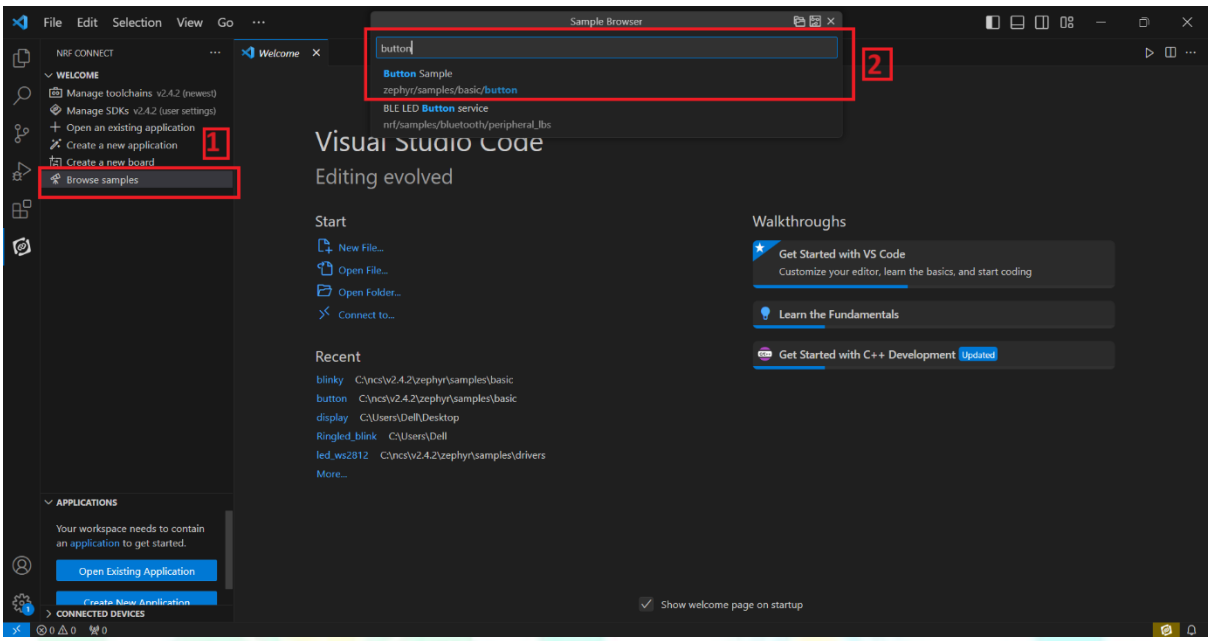
- nRF connect for desktop software.
- nRF Command line tools.
- Visual studio code.
- USB cable.
- nRF52832 Development Board/Node.

Prerequisites:

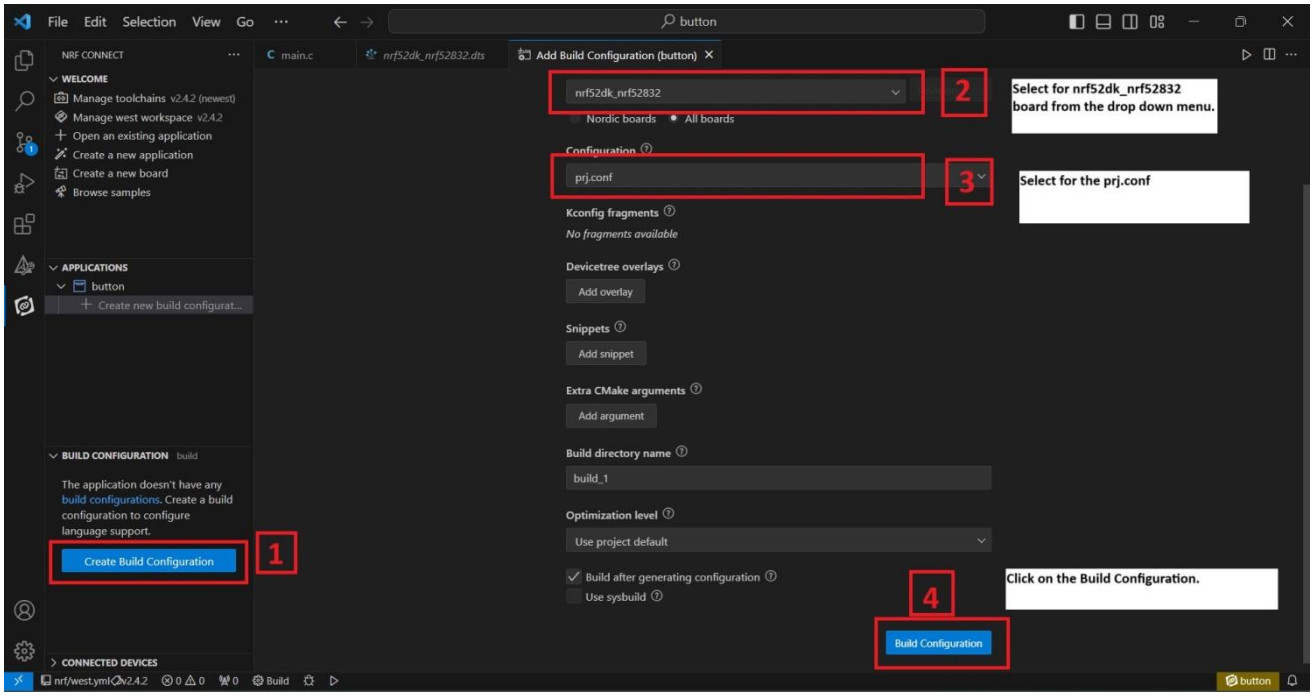
- Basic knowledge of C/C++
- Basic knowledge of communication protocol.
- Basic project setup.

Setup and Configuration:

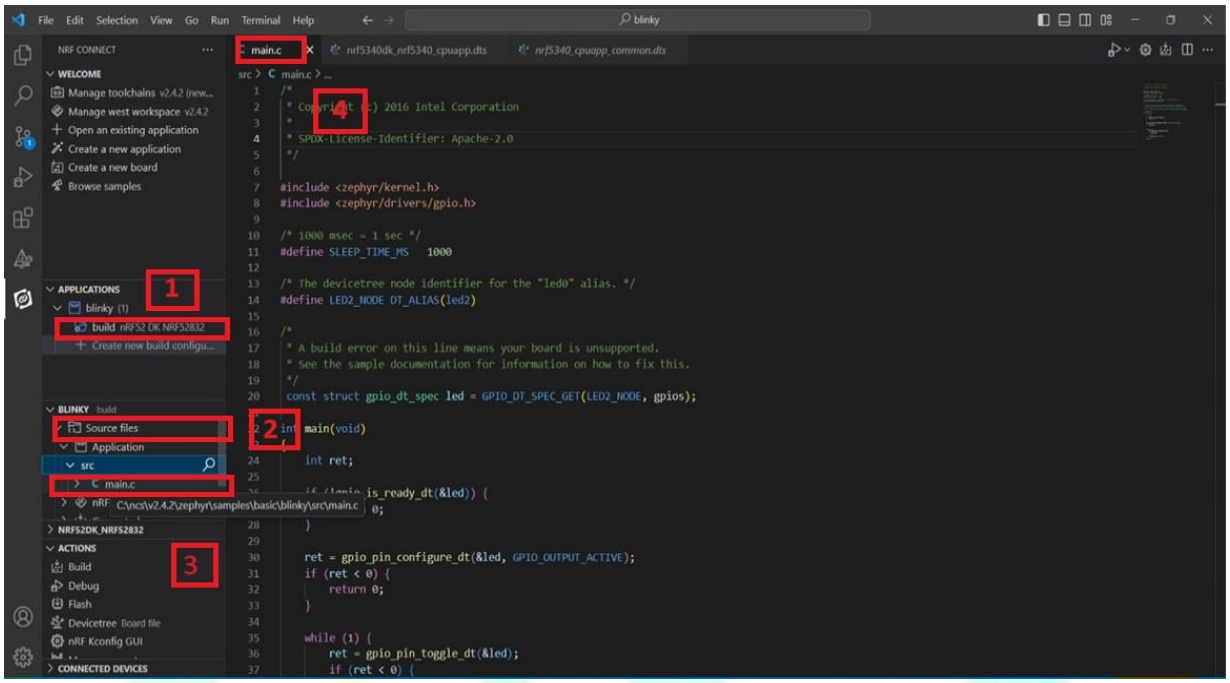
- Open VS Code and go to **Browse samples [1]** and search **Button [2]**.



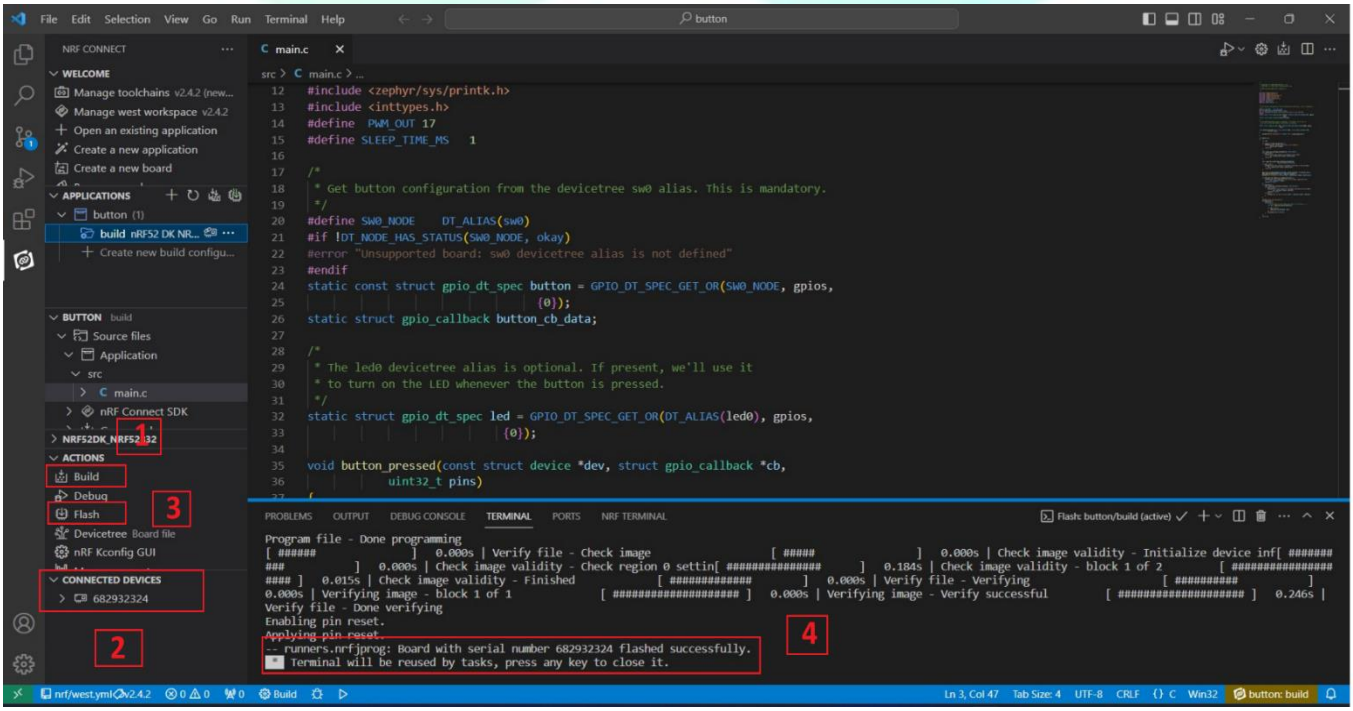
- Click on **Create new build configuration [1]**. Here you can change the board version, if you are using nRF52832, then select **nrf52dk_nrf52832 [2]** or you can change from dropdown menu for another version like nRF52833 etc.
- After that click on the Configuration and select **prj.conf [3]** from dropdown menu and then **click on the Build Configuration [4]**.



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

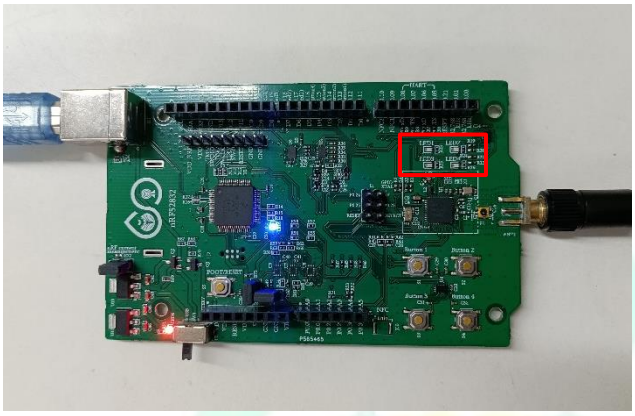


- Click on **Build [1]** configuration again and check the **CONNECTED DEVICES [2].**
- If device id is visible, then **Flash [3]** the code in Development Kit.
- If **flashed successfully [4]** message is displayed on serial terminal, then flash process is complete.

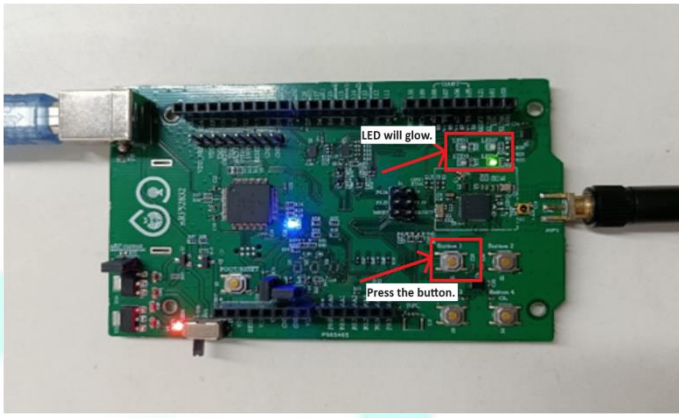


❖ OUTPUT

- nRF52832 board Before press the button.

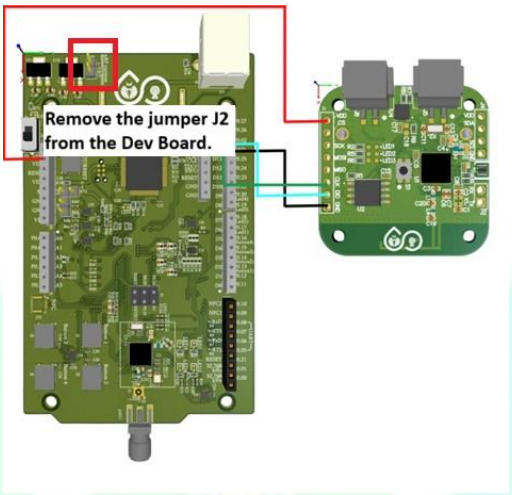


- nRF52832 board after press the button.



❖ With the help of NODE

- For Node programing remove the jumper **J2** from the development board.
- Now flash the code with the help of nRF52832 development board as shown below in the figure.



Board Pins -> NODE Pins
VDD -> VDD
GND -> GND
CLK -> CLK
DIO -> DIO

❖ OUTPUT

- Node board before press the button.

- Node board after press the button.