

# 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:

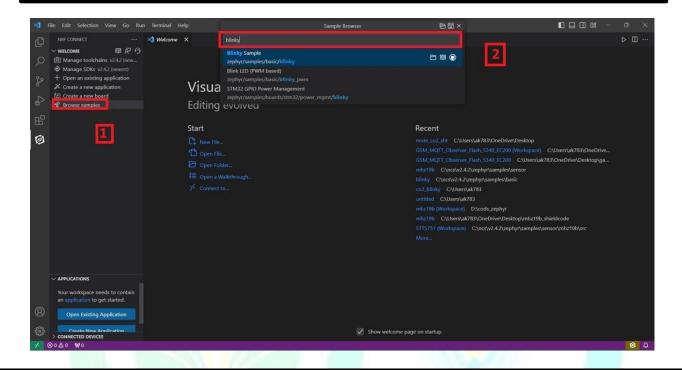
- > nRF Connect for desktop software.
- > nRF Command line tools.
- Visual studio code.
- > USB cable.
- > nRF52832 Development Board/Node.

# **Prerequisites:**

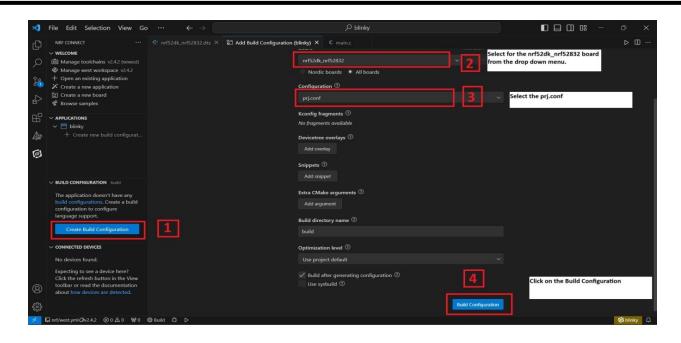
- ➤ Basic knowledge of C/C++
- > Basic knowledge of communication protocol.
- > Basic project setup.

# **Setup and Configuration:**

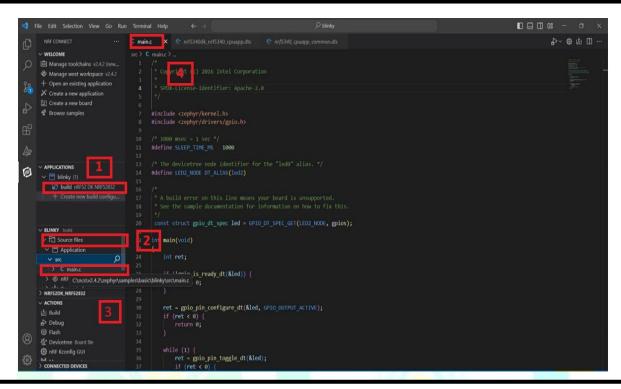
Open VS Code and go to Browse samples [1] and search Blinky [2].



- 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.
- 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].
- By Clicking 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.

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# **❖** OUTPUT

> nRF52832 board Before flash the code

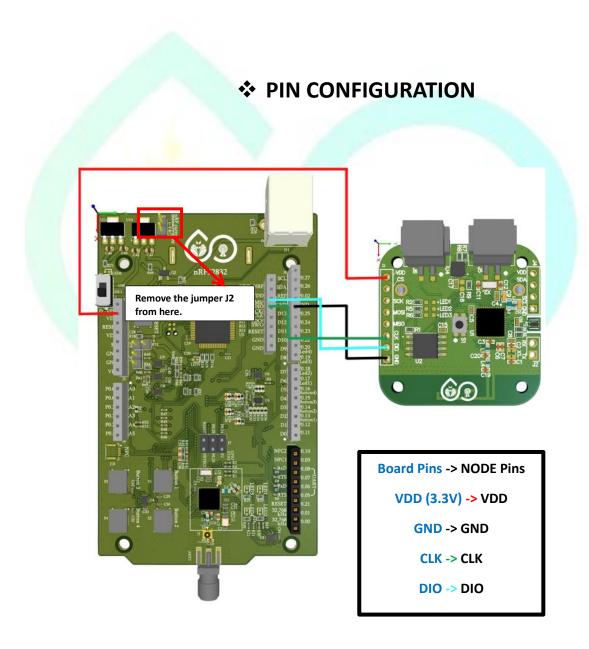
> nRF52832 board after flash the code



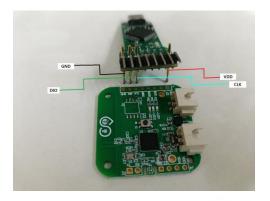


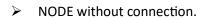
#### **WITH THE HELP OF NODE**

- > For Node programing 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.



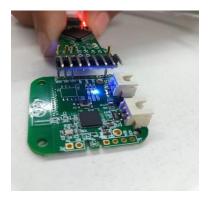
There is another way of flashing the code with the help of Node Programmer as shown in the picture below.







NODE with connection.



NODE after program.

### **❖** OUTPUT

NODE Before flash the code.

NODE after flash the code.



