

Once the environment is configured, you can test the routines.

There are a few simple routines available in the **jetson-gpio** folder.

You can input the following command to enter program directory.

```
cd /opt/nvidia/jetson-gpio/samples/
```

### **button\_led.py**

The program uses polling to control the LEDs by pressing a button.

Hardware Wiring:

The button is required to connect PIN18 and GND, a pull-up resistor is required to connect PIN18 and 3.3V, and connect an LED to the PIN12.

Input following command to run program.

```
sudo python3 button_led.py
```

After connecting the hardware, running the program.

Due to the pull-up resistor, PIN18 defaults to high level and the LED goes out. When the button is pressed, PIN18 become low, it is judged that the button is pressed, the LED is go on.