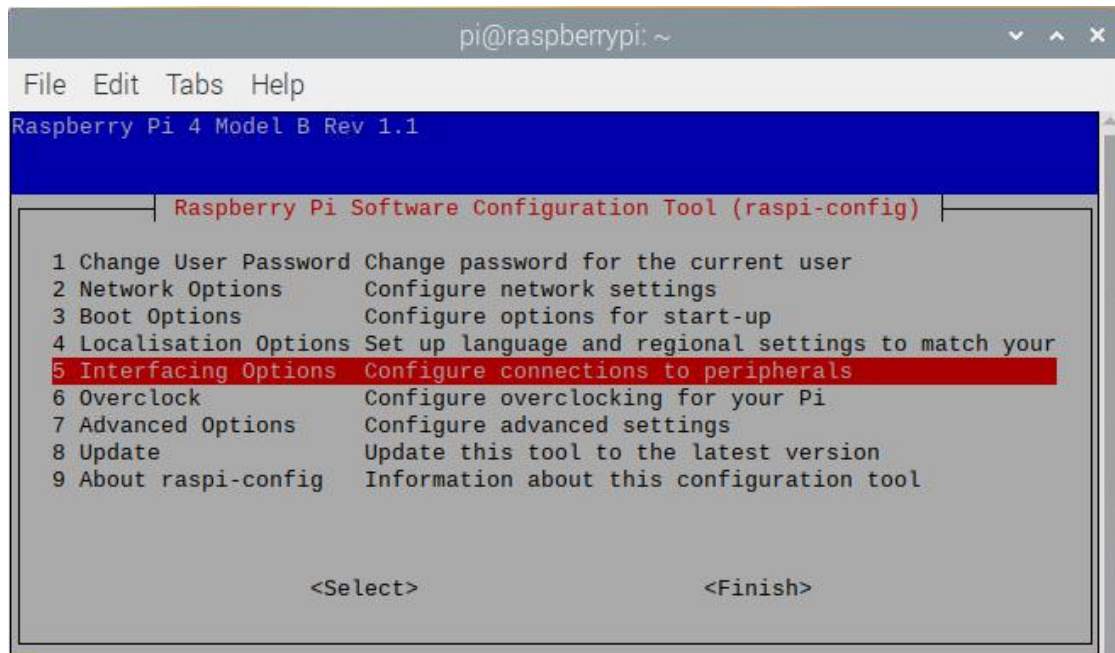


# I2C Configuration

**Step 1: Enable the I2C port of your Raspberry Pi (If you have enabled it, skip this; if you do not know whether you have done that or not, please continue).**

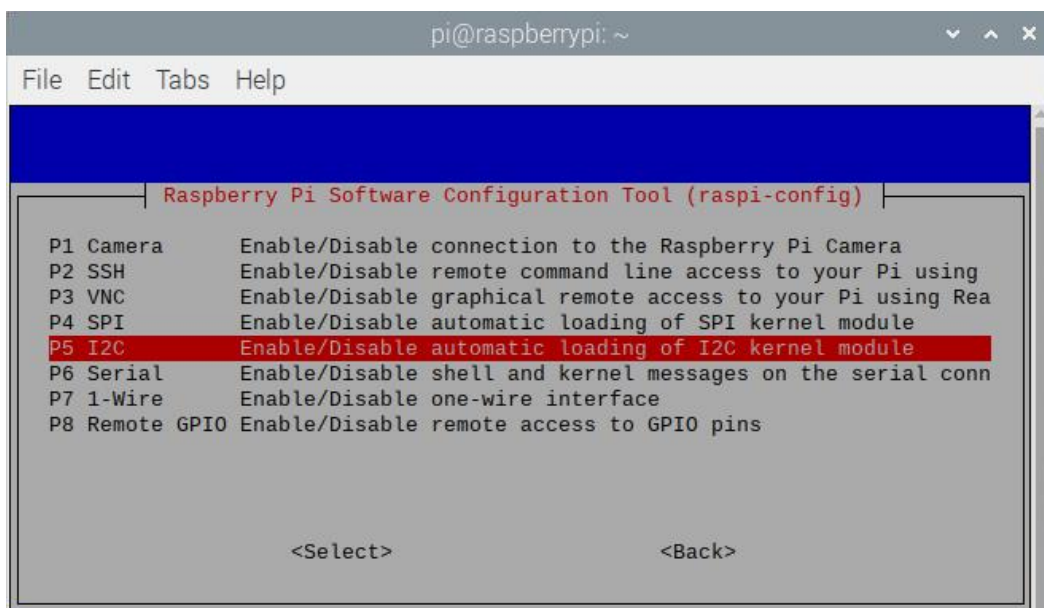
`sudo raspi-config`

5 Interfacing options



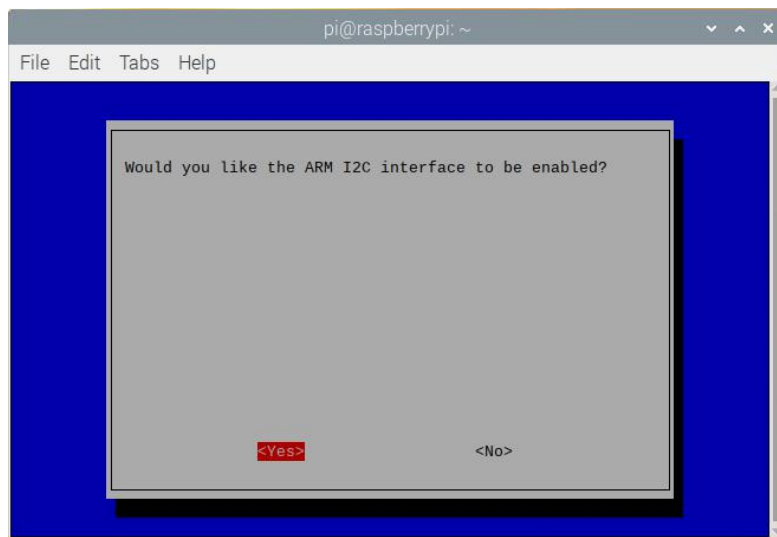
```
pi@raspberrypi: ~
File Edit Tabs Help
Raspberry Pi 4 Model B Rev 1.1
Raspberry Pi Software Configuration Tool (raspi-config)
1 Change User Password Change password for the current user
2 Network Options Configure network settings
3 Boot Options Configure options for start-up
4 Localisation Options Set up language and regional settings to match your
5 Interfacing Options Configure connections to peripherals
6 Overclock Configure overclocking for your Pi
7 Advanced Options Configure advanced settings
8 Update Update this tool to the latest version
9 About raspi-config Information about this configuration tool
<Select> <Finish>
```

P5 I2C

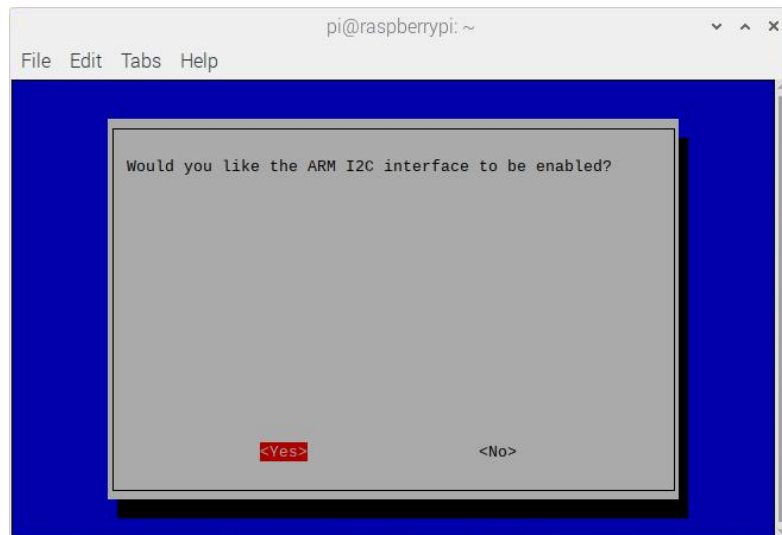


```
pi@raspberrypi: ~
File Edit Tabs Help
Raspberry Pi Software Configuration Tool (raspi-config)
P1 Camera Enable/Disable connection to the Raspberry Pi Camera
P2 SSH Enable/Disable remote command line access to your Pi using
P3 VNC Enable/Disable graphical remote access to your Pi using Rea
P4 SPI Enable/Disable automatic loading of SPI kernel module
P5 I2C Enable/Disable automatic loading of I2C kernel module
P6 Serial Enable/Disable shell and kernel messages on the serial conn
P7 1-Wire Enable/Disable one-wire interface
P8 Remote GPIO Enable/Disable remote access to GPIO pins
<Select> <Back>
```

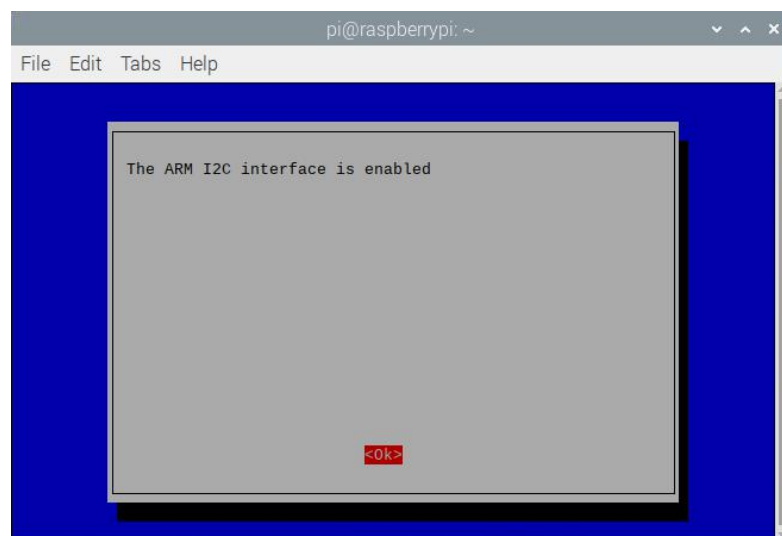
&lt;YES&gt;



&lt;YES&gt;



&lt;OK&gt;



&lt;Finish&gt;

```

pi@raspberrypi: ~
File Edit Tabs Help
Raspberry Pi 4 Model B Rev 1.1

Raspberry Pi Software Configuration Tool (raspi-config)

1 Change User Password Change password for the current user
2 Network Options Configure network settings
3 Boot Options Configure options for start-up
4 Localisation Options Set up language and regional settings to match your
5 Interfacing Options Configure connections to peripherals
6 Overclock Configure overclocking for your Pi
7 Advanced Options Configure advanced settings
8 Update Update this tool to the latest version
9 About raspi-config Information about this configuration tool

<Select> <Finish>

```

<Yes> (If you do not see this page, continue to the next step)

## Step 2: Check whether the i2c modules are loaded and active.

```
lsmod | grep i2c
```

Then the following codes will appear (the number may be different.

```

pi@raspberrypi: ~
File Edit Tabs Help
pi@raspberrypi:~ $ sudo raspi-config
pi@raspberrypi:~ $ lsmod | grep i2c
i2c_bcm2835 16384 0
i2c_dev 16384 0

```

## Step 3: Install i2c-tools.

```
sudo apt-get install i2c-tools
```

## Step 4: Check the address of the I2C device.

If there's an I2C device connected, the results will be similar as shown above - since the address of the device is 0x48, 48 is printed.

## Step 5:

### For C language users: Install libi2c-dev.

```
sudo apt-get install libi2c-dev
```

### For Python users: Install smbus for I2C.

```
sudo apt-get install python-smbus
```