CULTIVATION SYSTEM DEVELOPMENT PH.4 COURSE
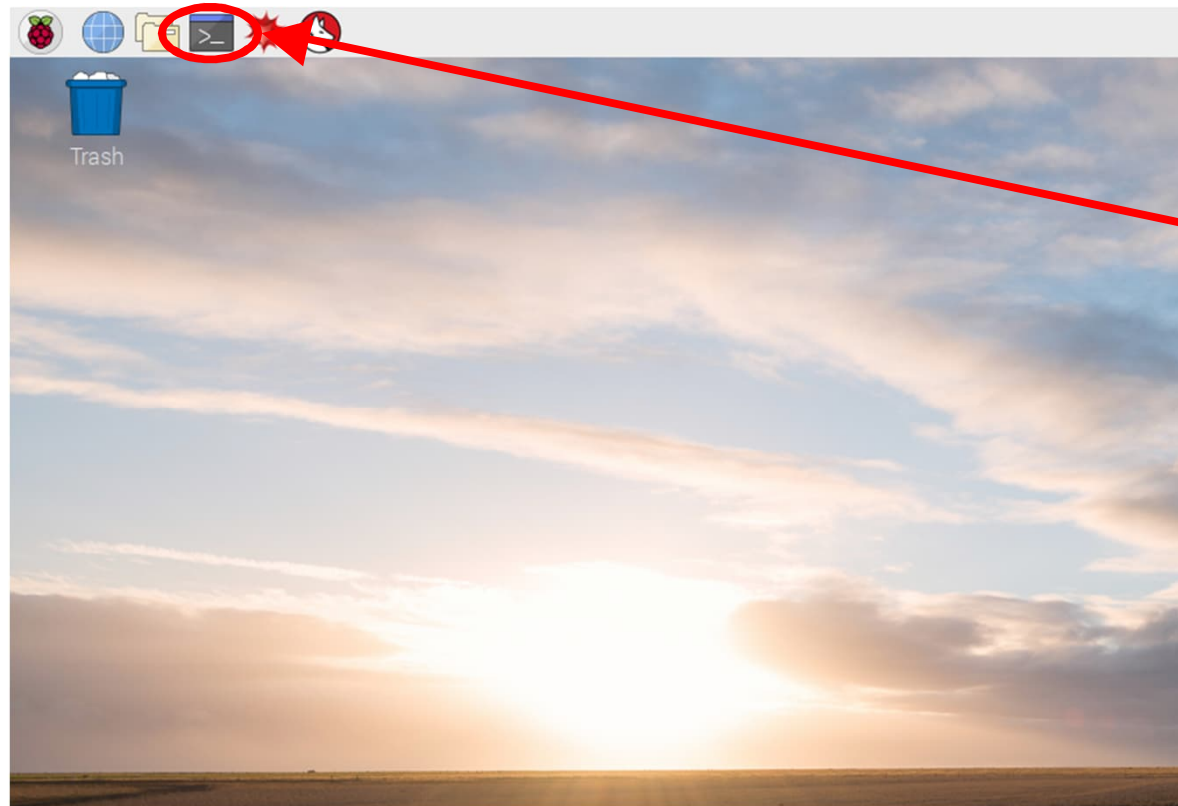
2
APPENDIX

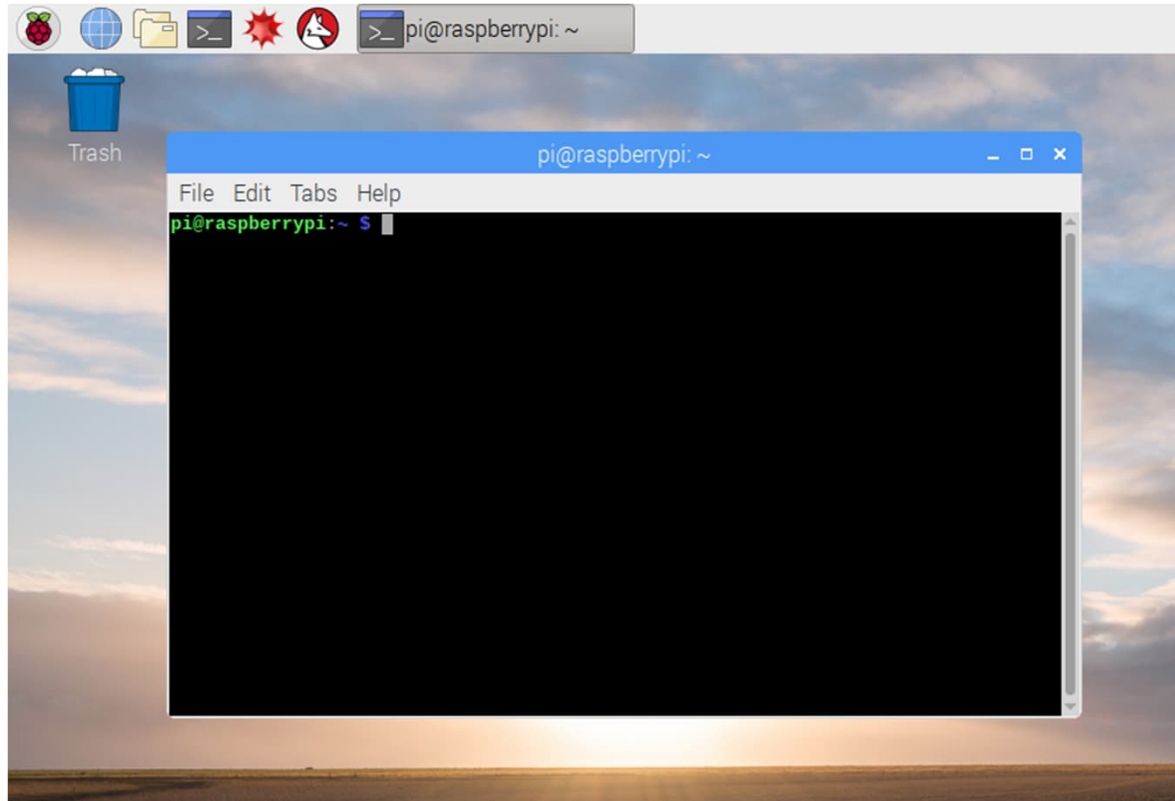First edition

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➢Set up the I2C interface

➢Install the I2C library for the Python

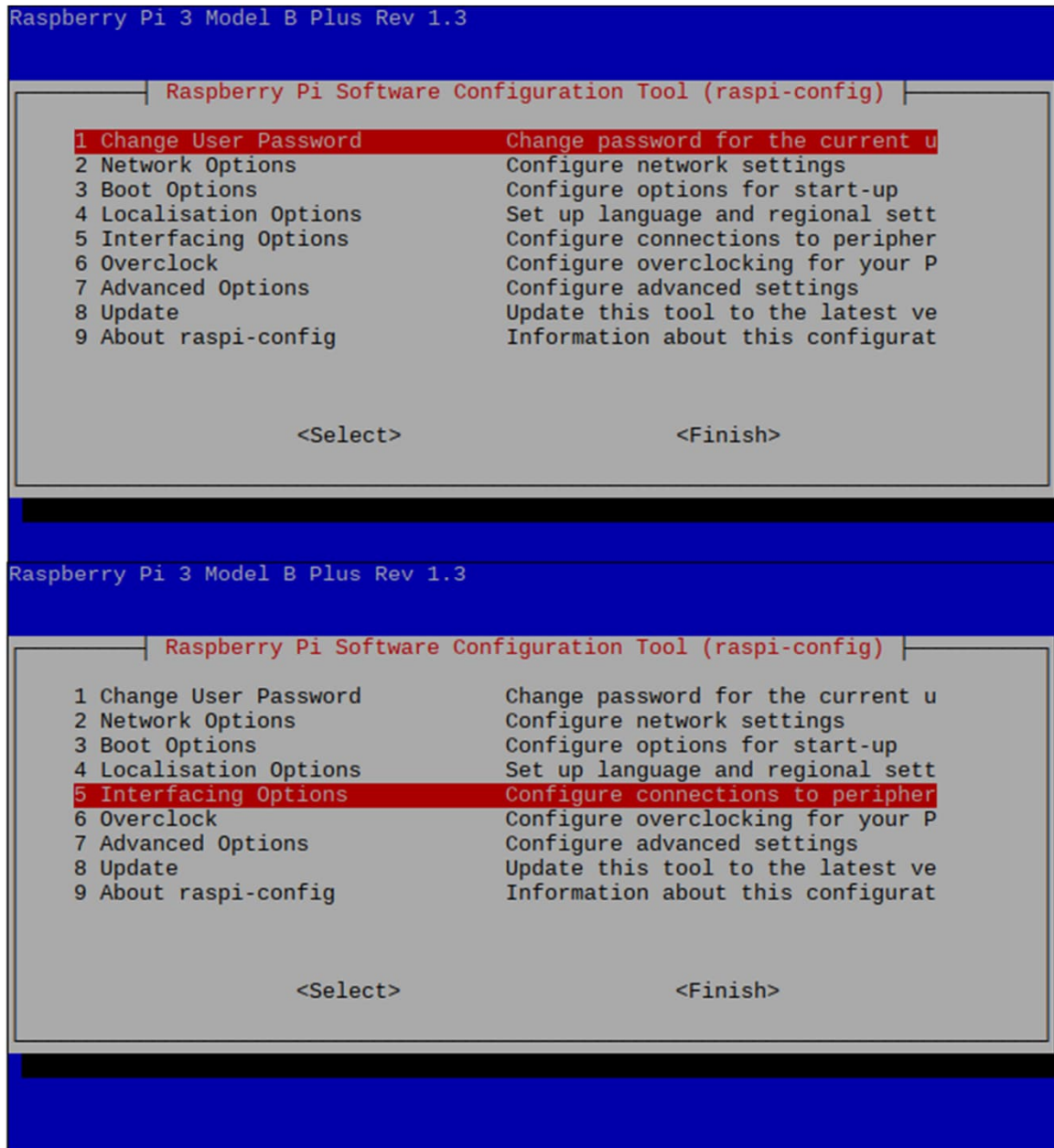# 1. SET UP THE I2C INTERFACE
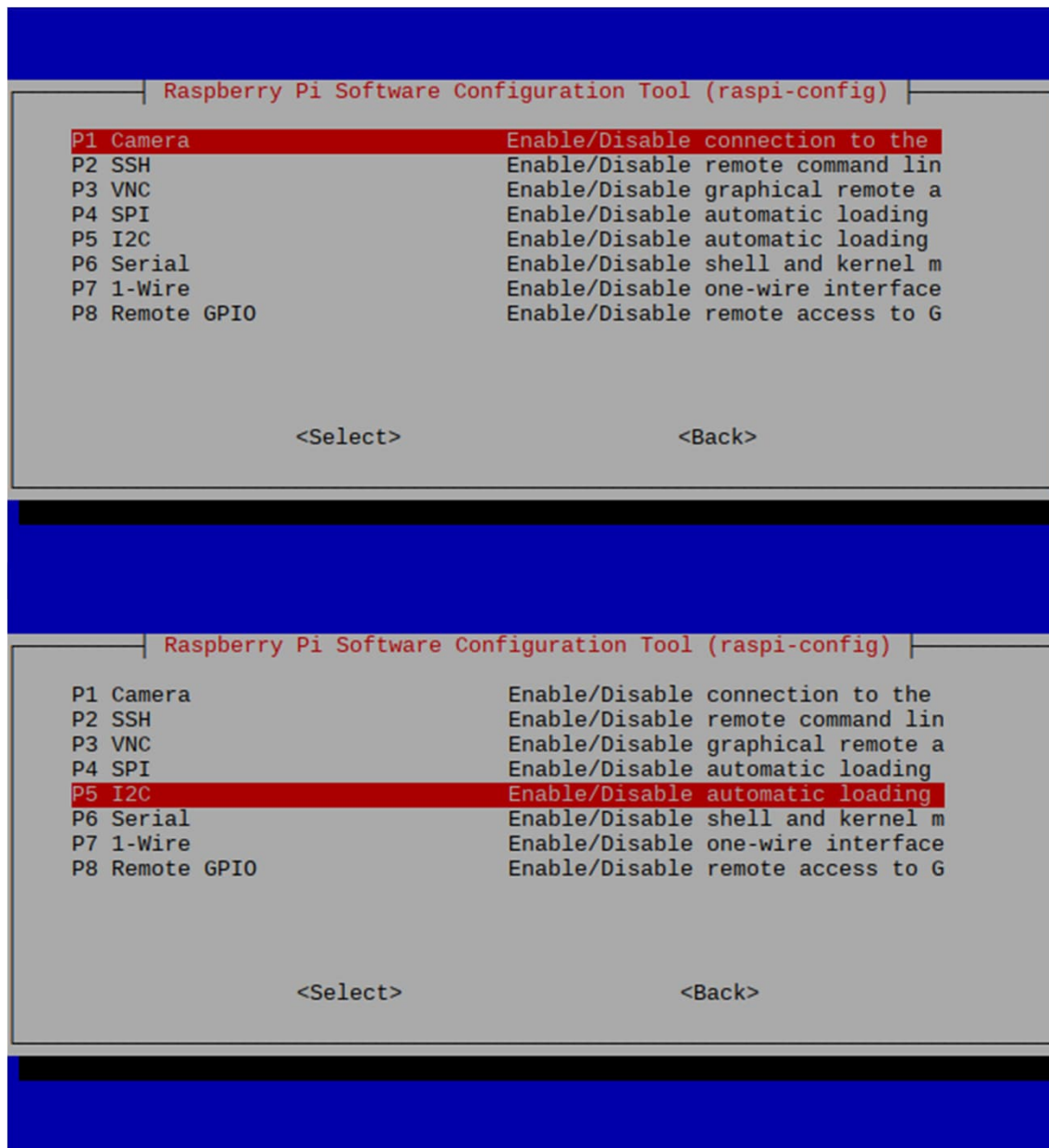
I2C interface activation procedure

Open the terminal.
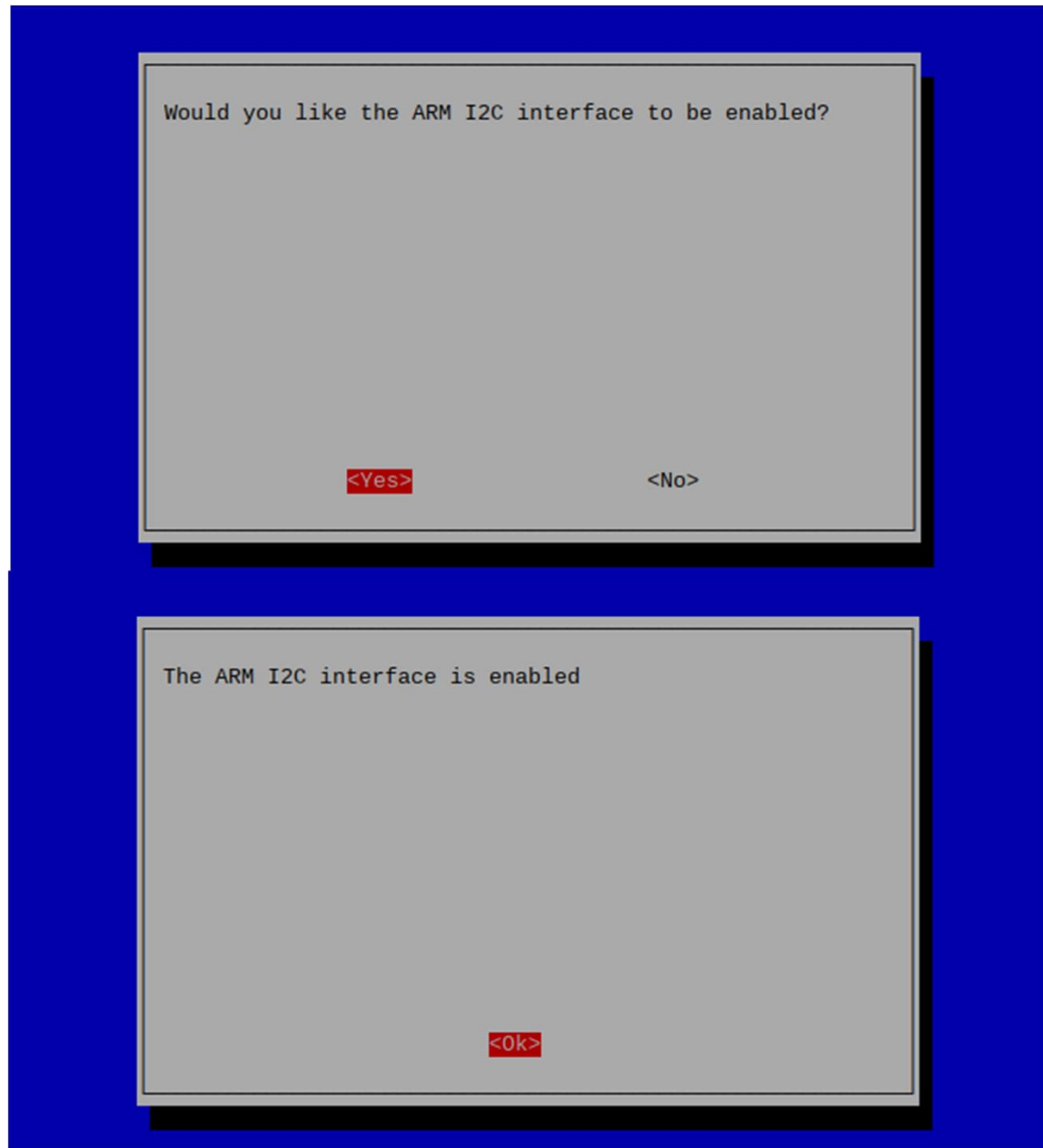
Type "sudo raspi-config" and press Enter.

Select 5 Interfacing Options

Select P5 I2C

Would you like the ARM I2C interface to be enabled?

<Yes>   <No>

Select <Yes>

The ARM I2C interface is enabled
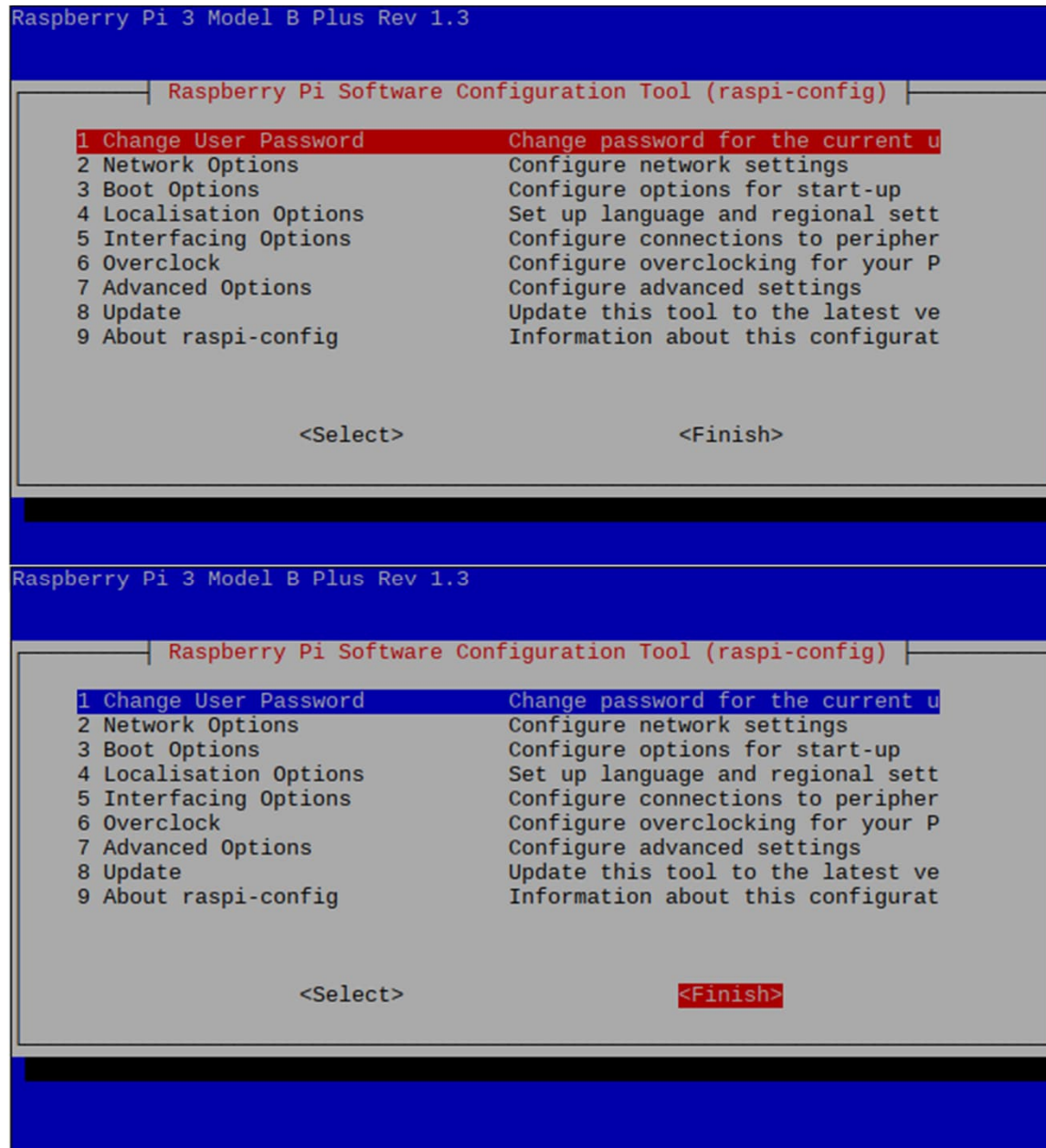
<Ok>
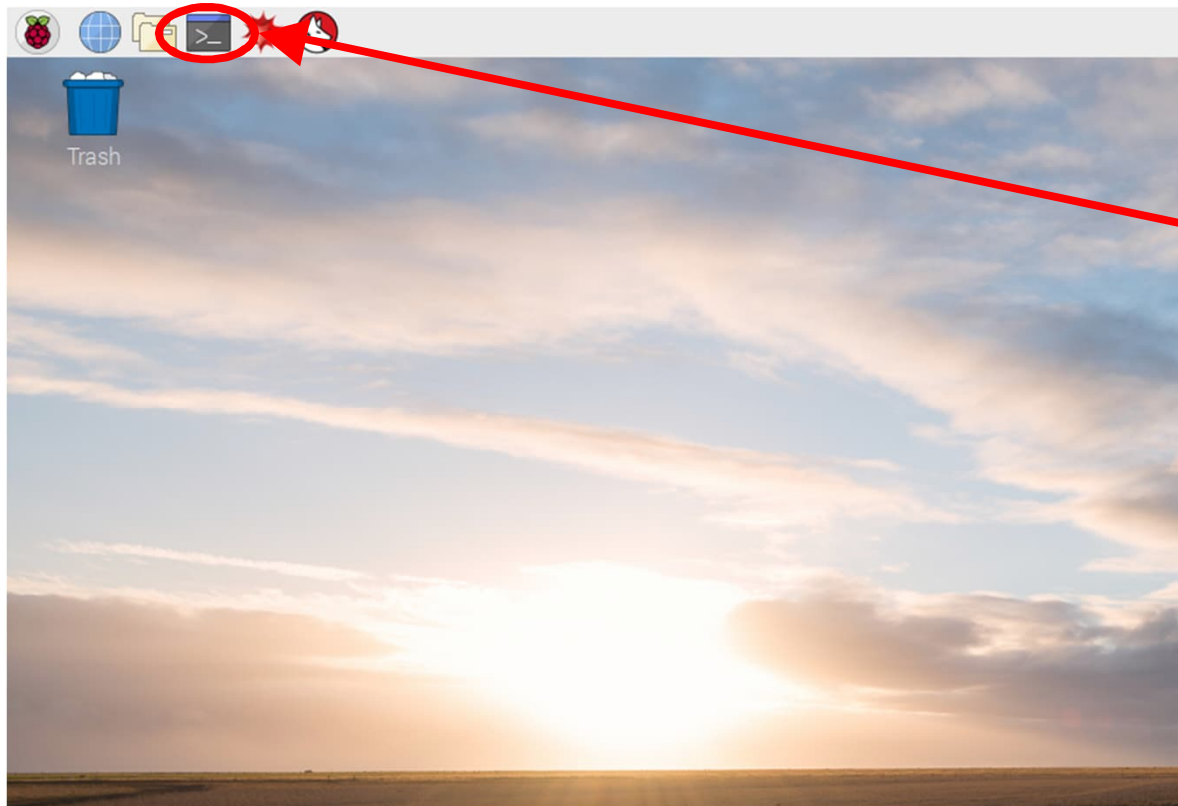
Select <Ok>

Select <Finish> with the TAB.

Type "sudo reboot" and press Enter.

```
pi@raspberrypi:~ $
pi@raspberrypi:~ $ sudo raspi-config
pi@raspberrypi:~ $
pi@raspberrypi:~ $ sudo reboot
```

Setting completed.

2. INSTALL THE I2C LIBRARY FOR THE PYTHON

Library Installation procedure

Open the terminal.

```
File  Edit  Tabs  Help
pi@raspberrypi:~ $ sudo apt update█
```

Update system package list

Type "sudo apt update" and press Enter.

```
File  Edit  Tabs  Help
pi@raspberrypi:~ $ sudo apt upgrade█
```

Upgrade all installed packages to the latest version

Type "sudo apt upgrade" and press Enter.

```
File  Edit  Tabs  Help
pi@raspberrypi:~ $ sudo apt clean█
```

Clear package cache

Type "sudo apt clean" and press Enter.

Type "sudo apt install python3-smbus"
and press Enter.

Type "sudo apt install i2c-tools"
and press Enter.

Type "sudo i2cdetect –y 1" and press Enter.

If the secondary device is connected to the I2C bus, the secondary bus address will be displayed.

CULTIVATION SYSTEM DEVELOPMENT PH.4 COURSE
2. APPENDIX

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