

4. Open and close the APP control program

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4.1. What is the startup APP control program

In order to facilitate the experience of the APP function of the car, a program is added to the system, which is a collection of APP control functions, so it is called "APP control program", and when the motherboard system is started, this program will automatically start, so it is called "startup APP control program".

The startup of the APP control program is only to facilitate the experience of the mobile APP function, in the actual development, it is necessary to close the APP control program, otherwise it will occupy the device, resulting in unpredictable errors. So before developing the program, please close the APP control program first.

There are two ways to close the startup APP control program, one is only closed once, the next startup it will automatically start, called temporary shutdown, the other is closed after the next startup will not automatically start, unless manually reopened, called permanent shutdown.

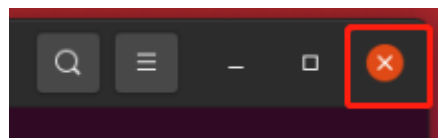
Default user name: root Password: yahboom

4.2. Temporary shutdown

If there is a display, mouse and keyboard, log in to the desktop.

If the display, mouse, and keyboard are not available, run the VNC Viewer software on a PC on the same LAN to log in to the desktop remotely.

After entering the desktop, you will see a terminal. Directly click the X symbol in the upper right corner to close the terminal and close the APP control program. Sometimes you may be prompted to close the terminal will close the running program, choose to confirm the close can be.



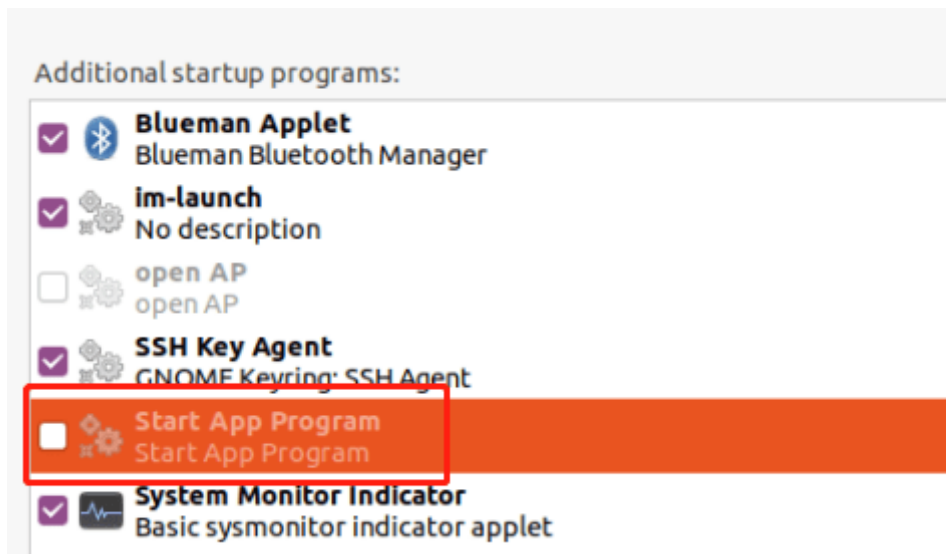
If there is no desktop environment, open the terminal and run the following command to close it:

```
sh /root/sunriseRobot/app_SunriseRobot/kill_program.sh
```

4.3. Permanently Closed

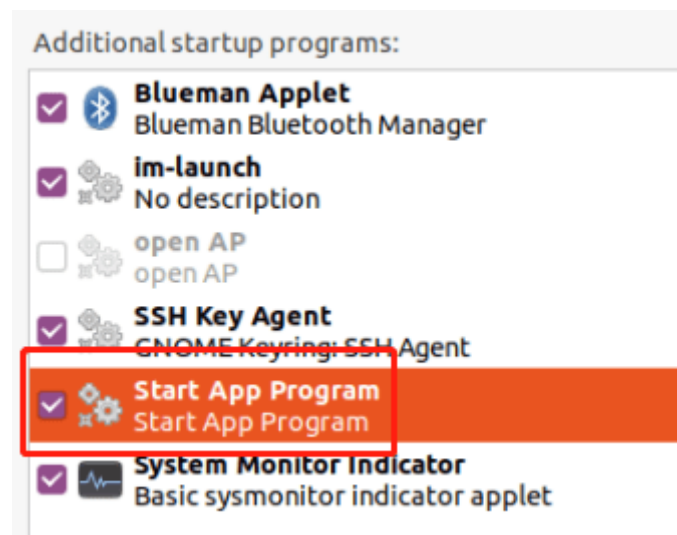
First, close the running APP control program by temporarily closing the operation.

After opening an application in the Ubuntu system, search for Startup Applications and remove the check mark in front of Start App Program, as shown in the figure below, you can permanently close the APP control program.



4.4. set the startup

After opening an application in the Ubuntu system, search for Startup Applications and tick the box in front of Start App Program, as shown in the figure below, then the system will automatically start the APP control program the next time it starts up.



4.5. Temporary startup

If you need to move the APP control program manually, open the Ubuntu terminal and enter the following command:

```
python3 /root/sunriseRobot/app_SunriseRobot/app_SunriseRobot.py
```

