

For the smart vest system for blind people

Turning on the vest

1. Remove the microSD card, put into computer, locate this file

```
/etc/wpa_supplicant/wpa_supplicant.conf.
```

- 2. Change the wifi address and password to your own wifi address and password
- 3,Turn on the powerbank attached to the vest, it will connect to the wifi automatically.

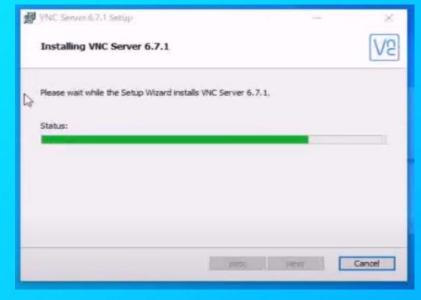
1. Installing REAL VNC viewer in the computer

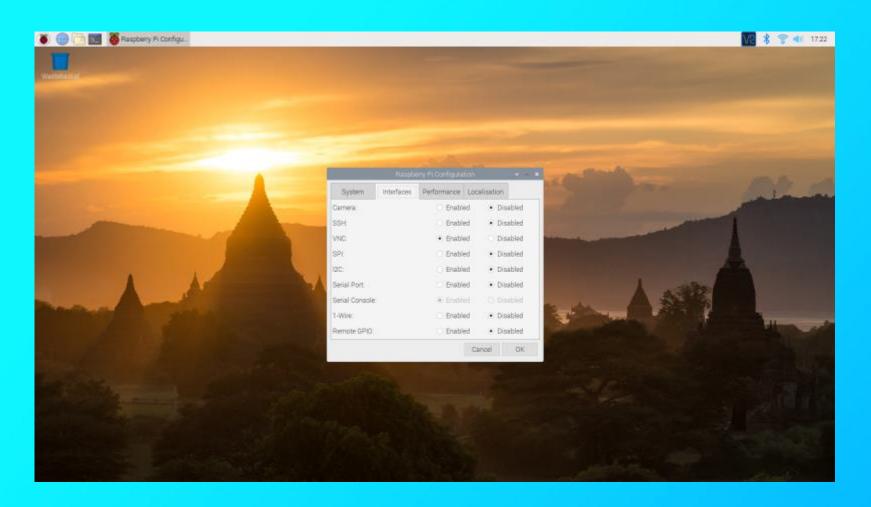
. A free version of the app is available on the official website

https://www.realvnc.com/en/connect/download/viewer/.

After the extension is downloaded, the installation setup is guided by a wizard as shown

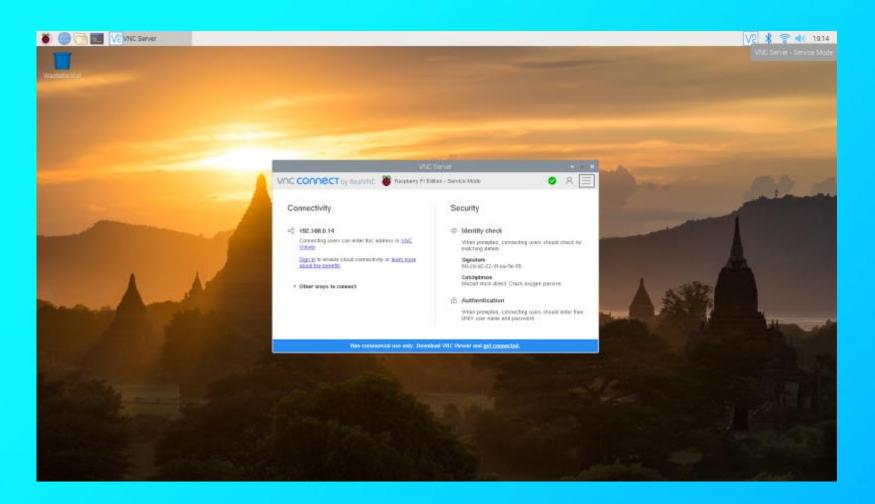




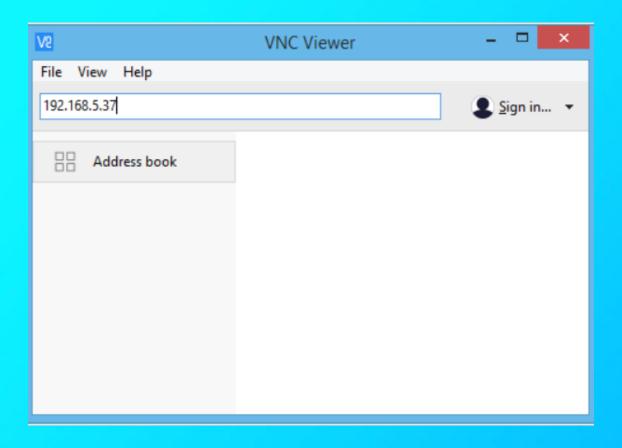


click the applications menu icon (raspberry) at the top-left of the screen and select Preferences > Raspberry Pi Configuration.

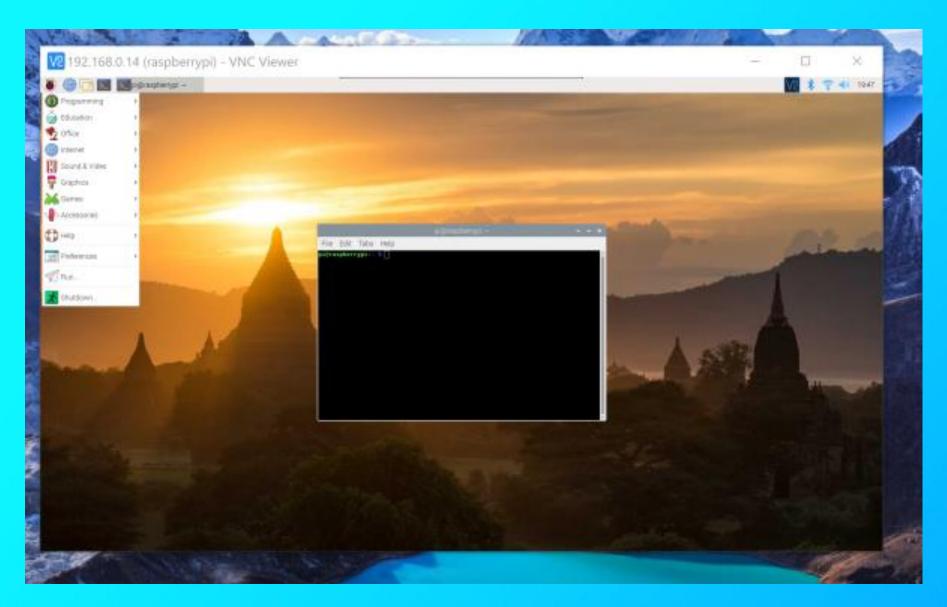
Then enable VNC



VNC connectivity window will show up



PUT the IP of the raspberry pi, you find in in the router admin app provided by your ISP.



The terminal of the raspberry pi will show up

Now u need to list all the directories, by the following command: Is –al and run the code file

```
pi@raspberrypi: ~
                                                              File Edit Tabs Help
pi@raspberrypi:~ $ ls -al
total 116
drwxr-xr-x 20 pi
                рi
                    4096 Mar 21 11:17 .
drwxr-xr-x 3 root root 4096 Feb 16 15:13 ...
               pi 2474 Mar 17 15:16 .bash_history
-rw----- 1 pi
-rw-r--r-- 1 pi pi 3512 Feb 16 15:13 .bashrc
drwxr-xr-x 6 pi pi 4096 Mar 2 11:54 .cache
              pi 4096 Mar 21 11:09 .config
drwx----- 10 pi
               pi 4096 Mar 2 11:27 .dbus
drwx----- 3 pi
               pi 4096 Mar 2 11:27 Desktop
drwxr-xr-x 2 pi
               pi 4096 Mar 21 11:13 Documents
drwxr-xr-x 7 pi
drwxr-xr-x 2 pi
               pi 4096 Mar 2 11:27 Downloads
drwxr-xr-x 2 pi
               pi 4096 Mar 2 11:28 .gstreamer-0.10
drwxr-xr-x 2 pi
               рi
                  4096 Mar 2 11:27 Music
               pi 4096 Mar 7 12:54 .node-red
drwxr-xr-x 4 pi
               pi 4096 Mar 21 11:12 Pictures
drwxr-xr-x 2 pi
               pi 4096 Mar 2 11:41 .pip
drwxr-xr-x 2 pi
               pi 675 Feb 16 15:13 .profile
-rw-r--r-- 1 pi
               pi 4096 Mar 2 11:27 Public
drwxr-xr-x 2 pi
drwxr-xr-x 2 pi pi 4096 Feb 16 18:26 python games
drwx----- 2 pi
              рi
                   4096 Mar 2 11:31 .ssh
          2 pi pi
                    4096 Mar 2 11:27 Templates
          3 pi
              рi
                    4096 Mar 2 11:27 .themes
          2 pi
                рi
                    4096 Mar 2 11:27 Videos
               pi 3597 Mar 9 16:06 .viminfo
          1 pi
               pi 843 Mar 9 15:01 .vimrc
          1 pi
         1 pi pi 113 Mar 21 10:17 .Xauthority
              pi 353 Mar 21 10:17 .xsession-errors
          1 pi
rw----- 1 pi pi 353 Mar 14 14:17 .xsession-errors.old
pi@raspberrypi:~ 💲
```

Once you run the code, the vest will start measuring distance, at one meter close object is detected, image processing will start and object names will be given to the vest wearer as audio output in headphones.

