

Automatically running code on start-up

The code below automatically runs the 'AVC' executable file, which directory path is /home/pi/Testing. Look below for the command to get to this file

```
./home/pi/Testing/AVC &
```

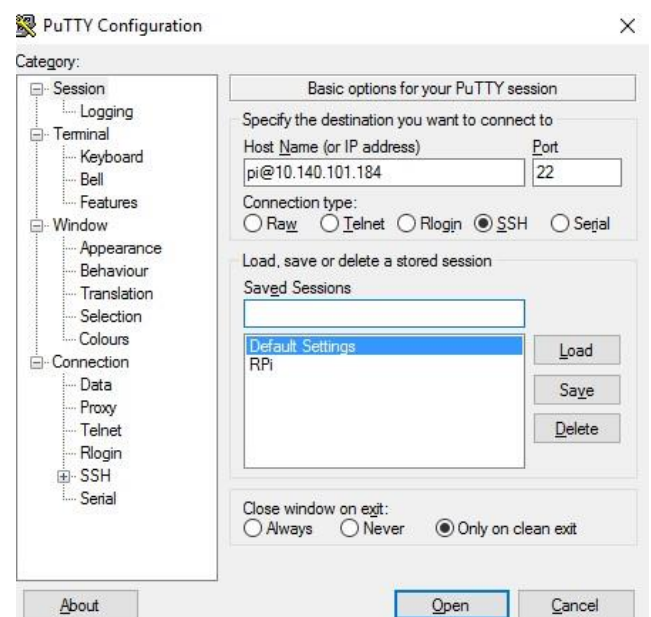
The command to get to the file above.

```
pi@VUW-RPi-01 ~ $ sudo nano /etc/rc.local
```

Using PuTTY to use SSH on windows OS

1. Download PuTTY from 'putty.org'.
2. Run PuTTY
3. Enter the details shown in the picture
4. Click Open
5. Enter the password 'pi' and press enter.

NOTE: password will not be shown when you type it out. The last few steps are the same as the readme posted by Jack on the Github.



Opening the gate

Firstly, you must go on the gate RPi and run the 'se2' file. Command for this is "./se2"(you may need to navigate to the directory containing this file, but it normally already is)

Then you can run the code/boot the RPi to open the gate and begin to navigate the Course.

Networking commands:

```
connect_to_server("130.195.6.196",1024);//connecting to the gate
```

Connects to a server, the parameters being the IP address, and port.

```
send_to_server("Please");//Sending the gate a message, asking for the password
```

Sending a message to the server

```
char message[24];
```

Declaring a variable 'message'

```
receive_from_server(message); //setting the variable 'message' as the message
```

Setting the 'message' variable to whatever we receive from the server(which is the password)

```
send_to_server(message); //NOTE: You must run se2 on the gate pi before running this code.
```

Sending the password back to the server, which then opens the gate.

Software

I will add more comments on to the software, so that everyone can just look at the code, and the comments will explain what each part of the code does.