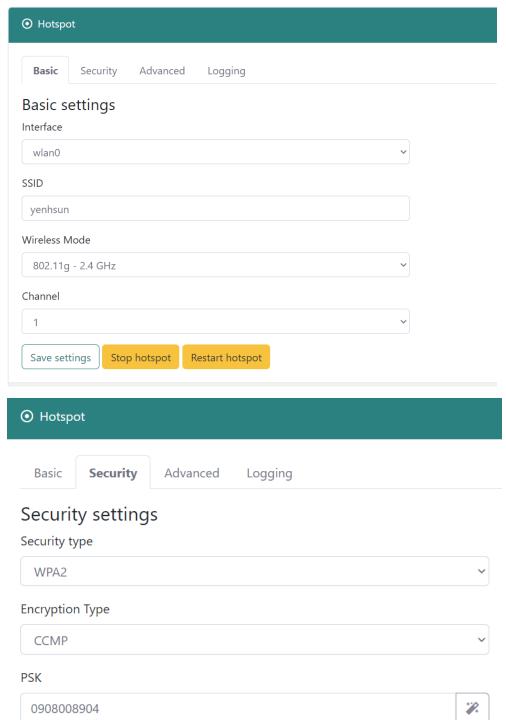F14106155

第一題:
測試是否可以上網
查看隨便一個網址(e.g. google.com, apple.com, etc.)的 ip
查看到那個網頁的路徑

```
F14106155@raspberrypi:~ $ ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=112 time=8.67 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=112 time=8.49 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=112 time=8.60 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=112 time=8.70 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=112 time=8.79 ms
64 bytes from 8.8.8.8: icmp_seq=6 ttl=112 time=8.91 ms
^C
--- 8.8.8.8 ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5052ms
rtt min/avg/max/mdev = 8.491/8.693/8.906/0.132 ms
F14106155@raspberrypi:~ $ ping google.com
PING google.com (142.251.42.238) 56(84) bytes of data.
64 bytes from tsa01s11-in-f14.1e100.net (142.251.42.238): icmp_seq=1 ttl=112 time=8.55 ms
64 bytes from tsa01s11-in-f14.1e100.net (142.251.42.238): icmp_seq=2 ttl=112 time=8.48 ms
64 bytes from tsa01s11-in-f14.1e100.net (142.251.42.238): icmp_seq=3 ttl=112 time=8.39 ms
64 bytes from tsa01s11-in-f14.1e100.net (142.251.42.238): icmp_seq=4 ttl=112 time=8.65 ms
64 bytes from tsa01s11-in-f14.1e100.net (142.251.42.238): icmp_seq=5 ttl=112 time=8.63 ms
64 bytes from tsa01s11-in-f14.1e100.net (142.251.42.238): icmp_seq=6 ttl=112 time=8.62 ms
^C
--- google.com ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5013ms
rtt min/avg/max/mdev = 8.392/8.553/8.647/0.091 ms
F14106155@raspberrypi:~ $ traceroute google.com
traceroute to google.com (172.217.160.110), 30 hops max, 60 byte packets
 1  LAPTOP-MF7JB4TM.mshome.net (192.168.137.1)  2.700 ms * *
 2  * * *
 3  140.116.123.253 (140.116.123.253)  2.128 ms  2.173 ms  2.220 ms
 4  140.116.243.33 (140.116.243.33)  2.407 ms  2.328 ms  2.376 ms
 5  140.116.243.193 (140.116.243.193)  3.298 ms  3.030 ms  2.692 ms
 6  140.116.243.177 (140.116.243.177)  3.688 ms  3.521 ms  5.194 ms
 7  192.192.61.146 (192.192.61.146)  4.989 ms  4.531 ms  4.802 ms
 8  192.192.61.32 (192.192.61.32)  6.892 ms 192.192.61.24 (192.192.61.24)  7.821 ms  7.346 ms
 9  192.192.61.184 (192.192.61.184)  7.803 ms  8.672 ms  8.750 ms
10  192.192.61.203 (192.192.61.203)  8.604 ms  8.968 ms  8.889 ms
11  72.14.202.60 (72.14.202.60)  8.979 ms  8.855 ms  8.785 ms
12  * * *
13  108.170.244.65 (108.170.244.65)  10.516 ms  10.348 ms 142.251.226.170 (142.251.226.170)  8.433 ms
14  tsa03s06-in-f14.1e100.net (172.217.160.110)  8.599 ms 108.170.244.45 (108.170.244.45)  9.230 ms 108.170.225.177 (108.170.225.177)  9.450 ms
F14106155@raspberrypi:~ $
```

第一題:
測試是否可以上網
查看隨便一個網址(e.g. google.com, apple.com, etc.)的 ip
查看到那個網頁的路徑

第二題:

➢ 更改 **Hotspot** 名稱&密碼

⊙ Hotspot

| **Basic** | Security | Advanced | Logging |

Basic settings

Interface

wlan0

SSID

yenhsun

Wireless Mode

802.11g - 2.4 GHz

Channel

1

Save settings Stop hotspot Restart hotspot

⊙ Hotspot

| Basic | **Security** | Advanced | Logging |

Security settings

Security type

WPA2

Encryption Type

CCMP

PSK

0908008904

➢ 測試是否可以上網

```
Microsoft Windows [版本 10.0.19044.2251]
(c) Microsoft Corporation. 著作權所有，並保留一切權利。

C:\Users\User>ping 8.8.8.8

Ping 8.8.8.8 (使用 32 位元組的資料):
回覆自 8.8.8.8: 位元組=32 時間=13ms TTL=112
回覆自 8.8.8.8: 位元組=32 時間=8ms TTL=112
回覆自 8.8.8.8: 位元組=32 時間=8ms TTL=112
回覆自 8.8.8.8: 位元組=32 時間=8ms TTL=112

8.8.8.8 的 Ping 統計資料:
    封包: 已傳送 = 4，已收到 = 4，已遺失 = 0 (0% 遺失)，
大約的來回時間 (毫秒):
    最小值 = 8ms，最大值 = 13ms，平均 = 9ms

C:\Users\User>
```

➢ 測試是否可以連到手機

```
C:\Users\User>ping 10.3.141.53

Ping 10.3.141.53 (使用 32 位元組的資料):
回覆自 10.3.141.53: 位元組=32 時間=22ms TTL=64
回覆自 10.3.141.53: 位元組=32 時間=27ms TTL=64
回覆自 10.3.141.53: 位元組=32 時間=33ms TTL=64
回覆自 10.3.141.53: 位元組=32 時間=56ms TTL=64

10.3.141.53 的 Ping 統計資料:
    封包: 已傳送 = 4，已收到 = 4，已遺失 = 0 (0% 遺失)，
大約的來回時間 (毫秒):
    最小值 = 22ms，最大值 = 56ms，平均 = 34ms

C:\Users\User>
```

➢ 給電腦設定一個固定 **IP**

➢ 查看從此電腦**(10.3.141.xx)**到 **google.com** 的路徑為何