Bluetooth BLE Lab2 Report

B06901160 翁挺瑋

1. iPhone supports BLE but Android Mi does not, so we used conventional Bluetooth instead.
2. Code for raspberry pi
3. # From  keithweaver/bluetooth-raspberry-pi-communication.py
5. **import** bluetooth
7. **def** receiveMessages():
8. server\_sock=bluetooth.BluetoothSocket( bluetooth.RFCOMM )
10. port = 1
11. server\_sock.bind(("",port))
12. server\_sock.listen(1)
14. client\_sock,address = server\_sock.accept()
15. **print** "Accepted connection from " + str(address)
17. data = client\_sock.recv(1024)
18. **print** "received [%s]" % data
20. client\_sock.close()
21. server\_sock.close()
23. **def** sendMessageTo(targetBluetoothMacAddress):
24. port = 1
25. sock=bluetooth.BluetoothSocket( bluetooth.RFCOMM )
26. sock.connect((targetBluetoothMacAddress, port))
27. sock.send("Message sent!!")
28. sock.close()
30. **def** lookUpNearbyBluetoothDevices():
31. nearby\_devices = bluetooth.discover\_devices()
32. **for** bdaddr **in** nearby\_devices:
33. **print** str(bluetooth.lookup\_name( bdaddr )) + " [" + str(bdaddr) + "]"

36. lookUpNearbyBluetoothDevices()

3.Pictures