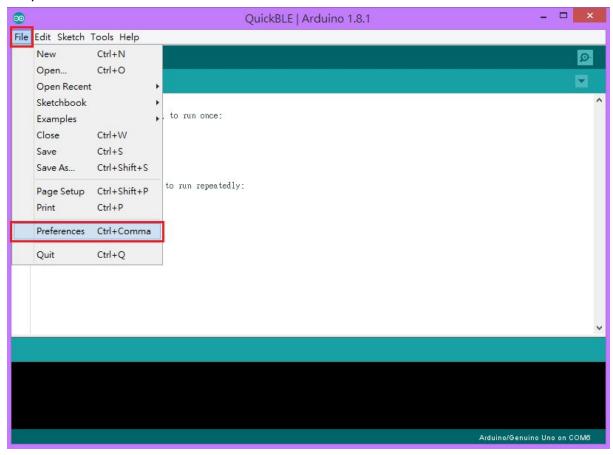
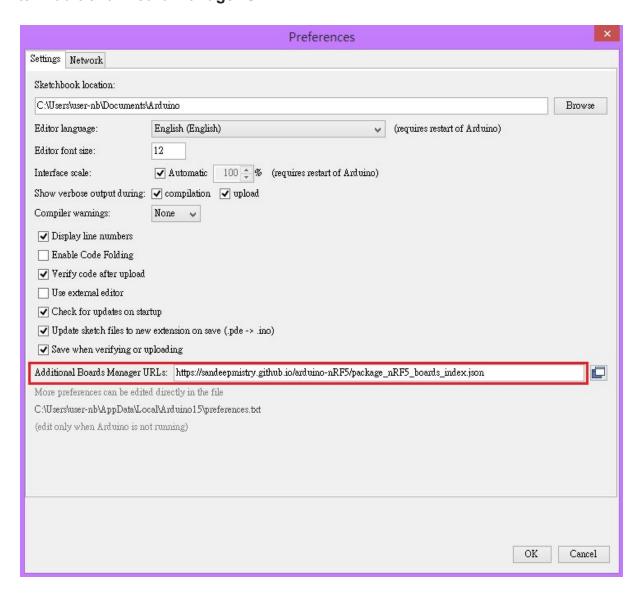
Using QuickBLE by Arduino IDE

A、Arduino IDE Basic Setting QuickBLE

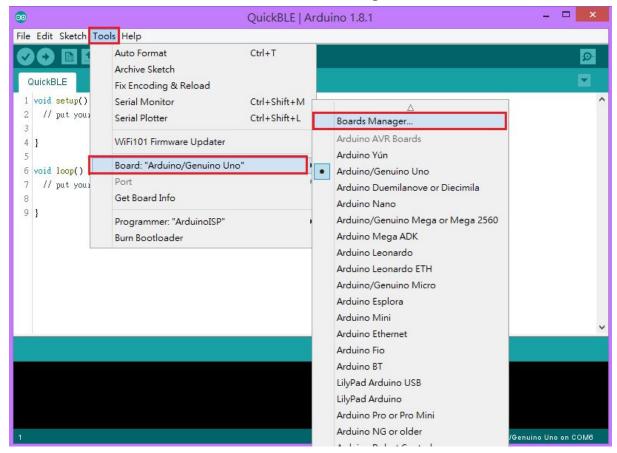
- 1. Download and install Arduino IDE (At least v1.6.12) (Download here https://www.arduino.cc/en/Main/Software)
- 2.Open Arduino IDE.Click "File" -> select "Preferences"



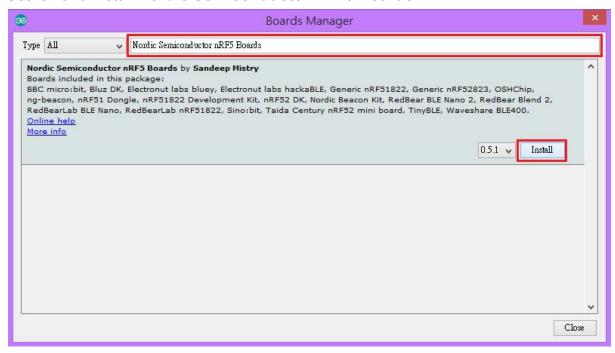
Add https://sandeepmistry.github.io/arduino-nRF5/package_nRF5_boards_index.json to "Additional Board Manager URL"



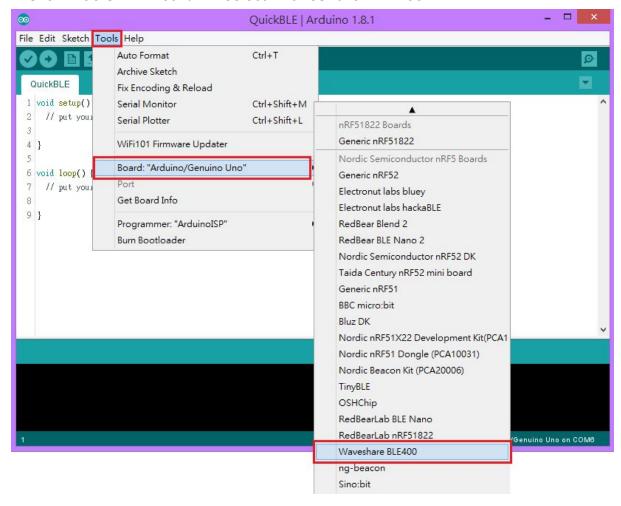
3.Click "Tools" -> "Board" -> select "Boards Manager"



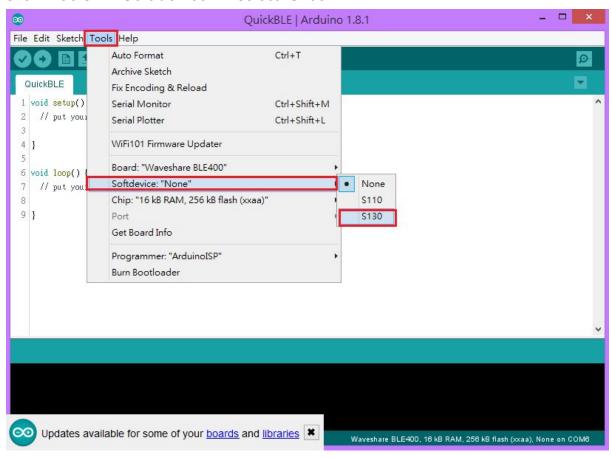
Search and install Nordic Semiconductor nRF5 Boards



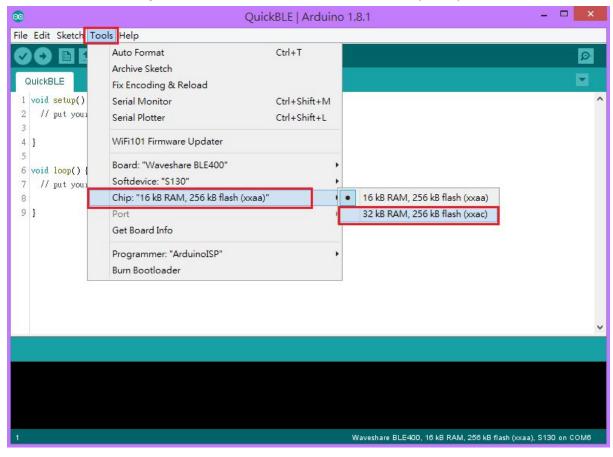
4. Click "Tools" -> "Board" -> select "Waveshare BLE400"



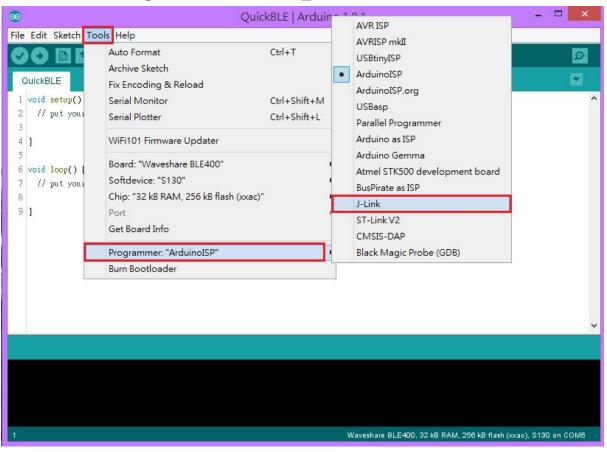
Click "Tools" -> "Soft device" -> select "S130"



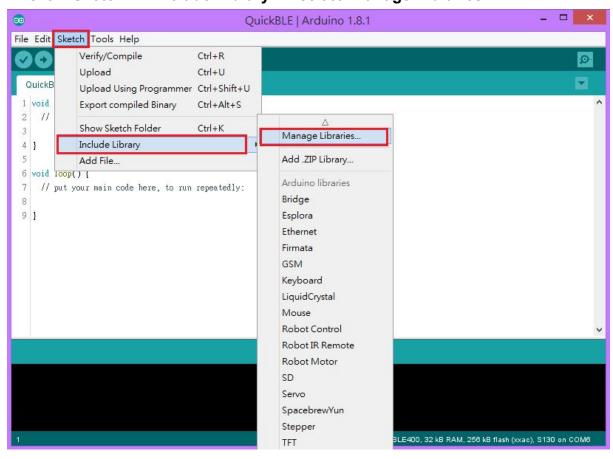
Click "Tools" -> "Chip" -> select "32kB RAM 256kB flash(xxac)"



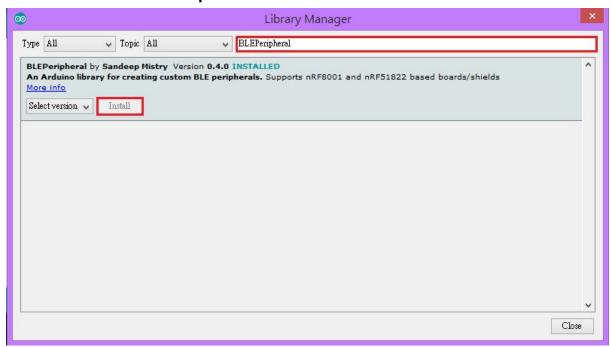
Click "Tools" -> "Programmer" -> select "J_Link"



Download Arduino BLE library。 Click "Sketch" ->"Include Library" -> select "Manage Libraries"



Search and install **BLEPeripheral**

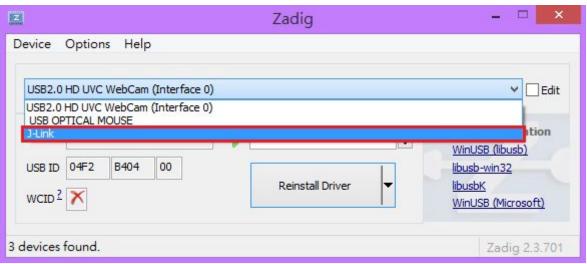


B、Install J_Link Driver

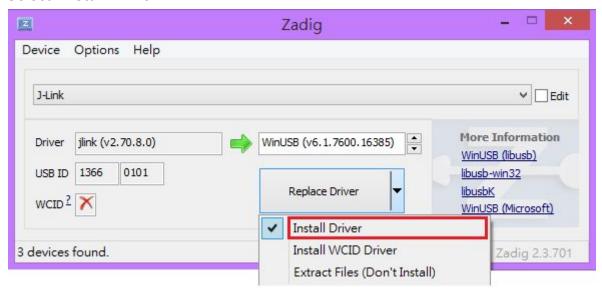
- Download and install J_Link driver (Download here http://zadig.akeo.ie/downloads/zadig-2.3.exe)
- 2.Open Zadig.Click "Options" -> select "List All Devices"



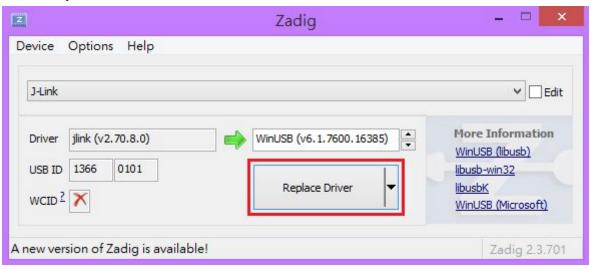
Select **J_Link** (Please connect **J_link** device before)



Select "Install Driver"

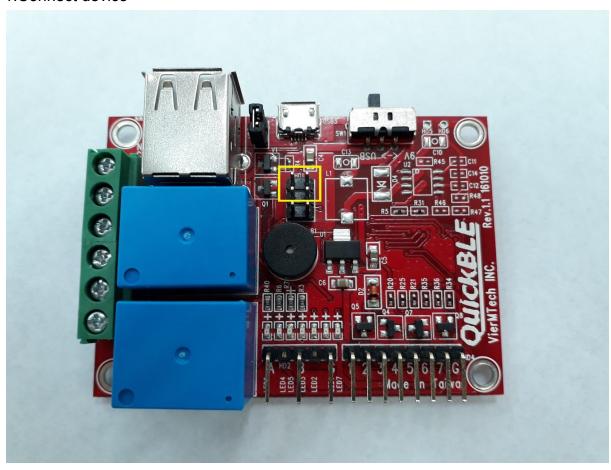


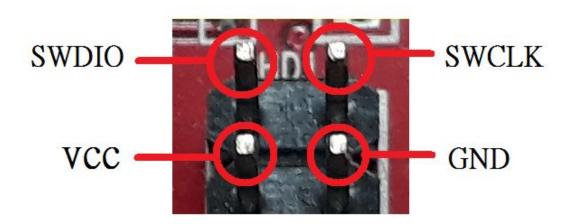
Click "Replace Driver" start



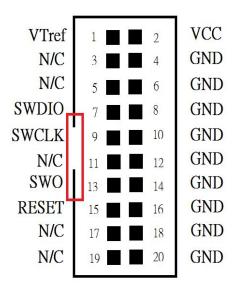
C、Arduino IDE Upload

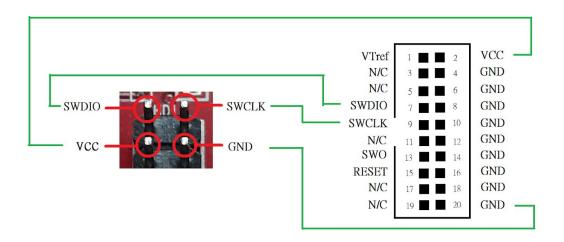
1.Connect device



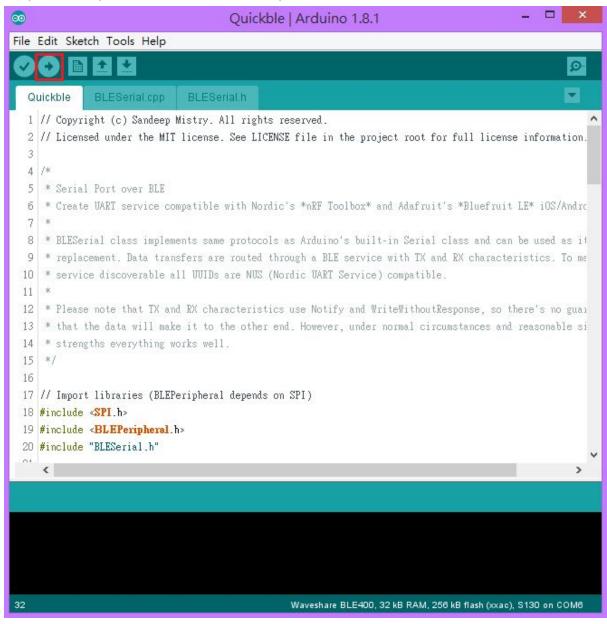








2. Open example "Quickble.ino" and Upload



D. Install Application

Download and install nRF Toolbox Application





UNINSTALL

OPEN

100

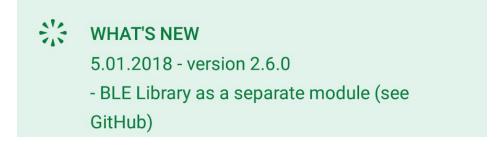
THOUSAND

Downloads

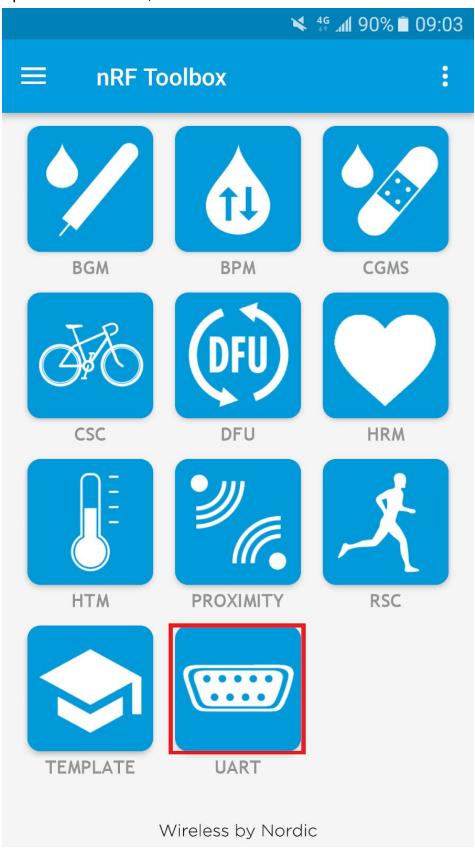
158
Tools

Similar

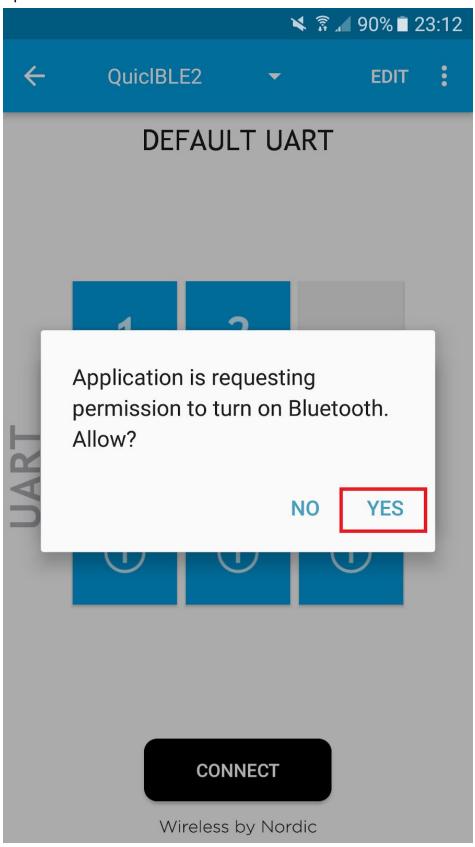
Explore your Bluetooth low energy devices with nRF Toolbox.



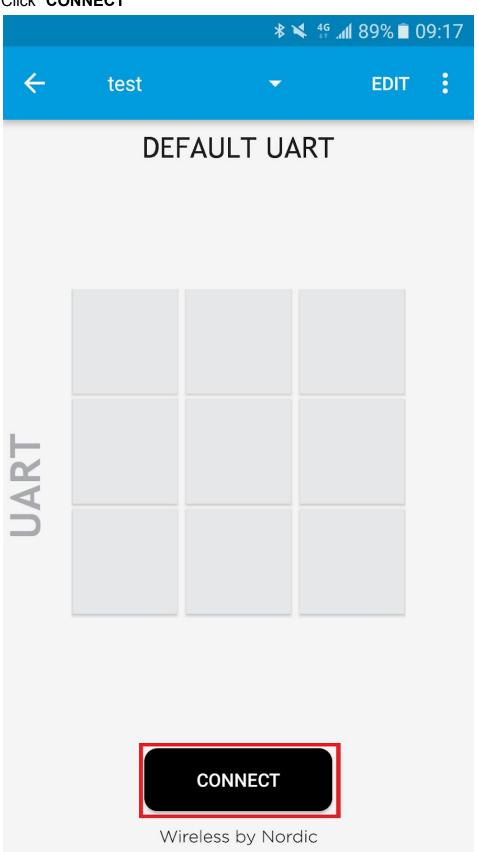
Open \mathbf{nRF} $\mathbf{Toolbox}$, \mathbf{Click} " \mathbf{UART} "

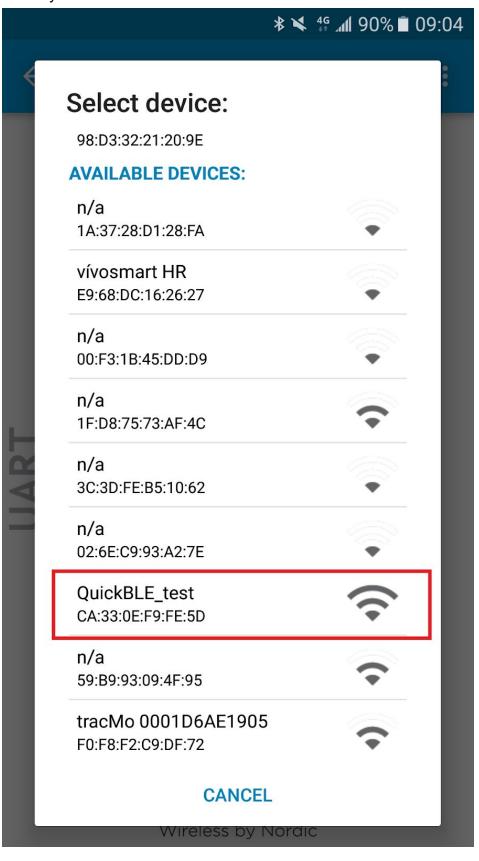


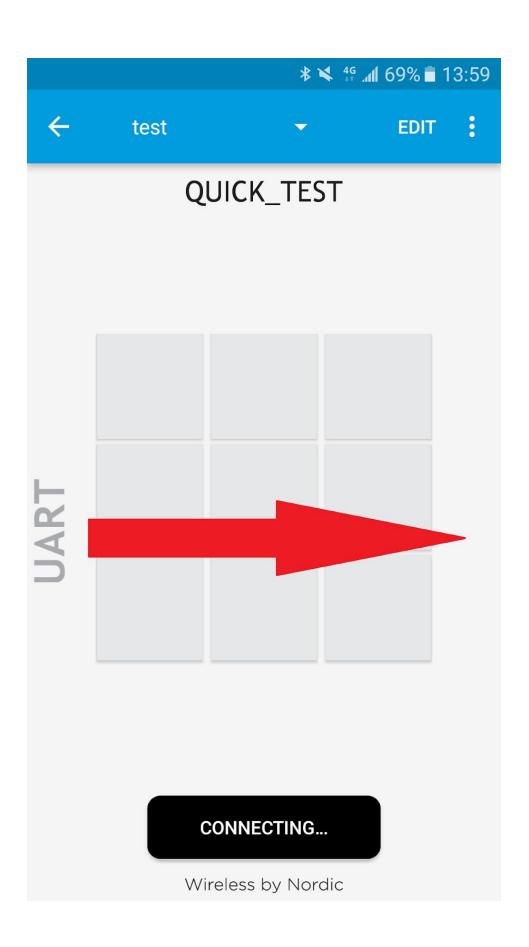
Open Bluetooth



Click "CONNECT"





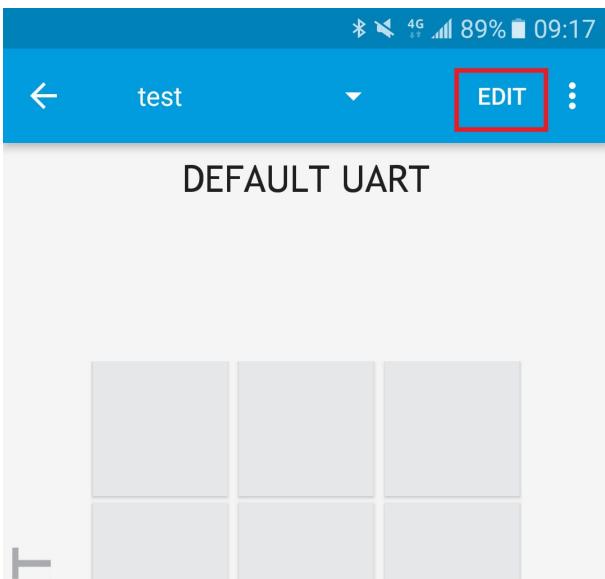


		* *	⁴⁶ ⋅ 11 90% = 0	9:04
← Qı	uiclBLE2	•	EDIT	:
09:04:27.919				
09:04:27.931	Binding to the			
09:04:27.951	Service starte	ed		
09:04:27.969	Connecting			
09:04:27.977	3			
	device.conne false)	ectGatt(a	utoConnect =	
09:04:28.089	Activity bound to the service			
09:04:28.816	[Callback] Connection state			
	changed with			
00 04 00 000	state: 2 (CON			
09:04:28.830	Connected to			
09:04:28.899	Discovering Services			
09:04:28.907	gatt.discoverServices()			<u></u>
09:04:28.968	Services Disc			04
09:04:28.973	Primary servi			4
09:04:29.030	gatt.setChara			UAR
	on(6e400003 e50e24dcca9		893-e0a9-	_
09:04:29.041	Enabling noti		for	
09.04.29.041	6e400003-b5			
	e50e24dcca		Coas	
09:04:29.099			00002902-	
	0000-1000-8			
	value=0x01-0	00)		
09:04:29.217 Data written to descr. 00002902-				
	0000-1000-8		05f9b34fb,	
00.04.00.005	value: (0x) 01			
09:04:29.225	Notifications	enabled		
Write comn	nand		SEND	

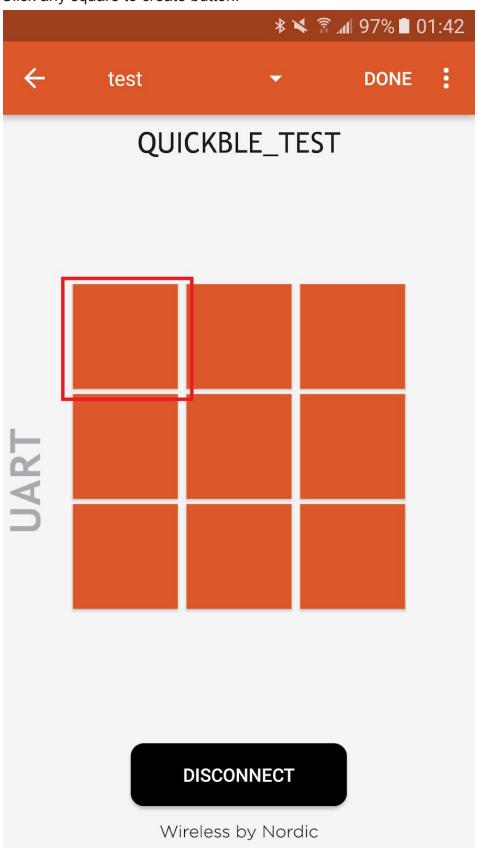
The QuickBLE can be controlled by entering the instruction below **"Write command"** and clicking **"SEND"** to transfer command.

Write command	SEND	
---------------	------	--

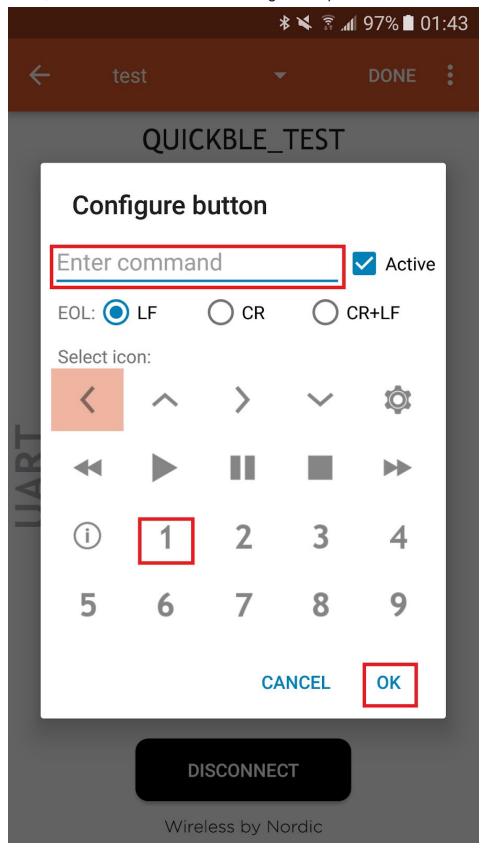
Or click the **"EDIT"** to edit button



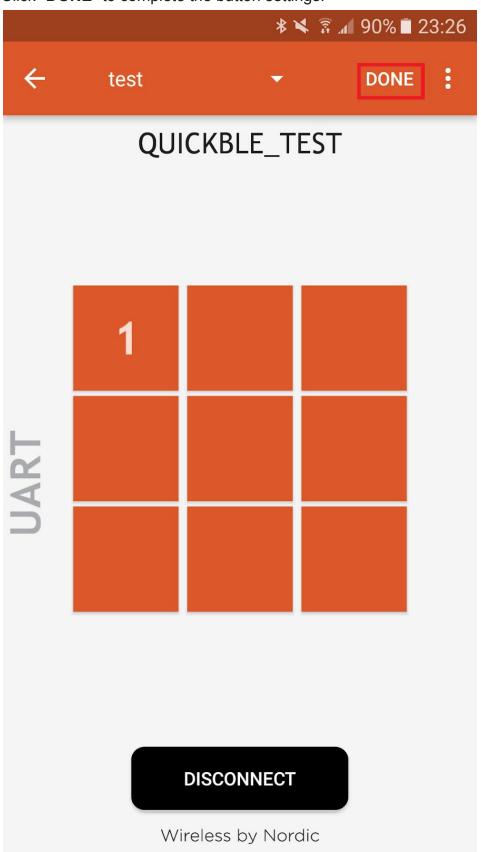
Click any square to create button.



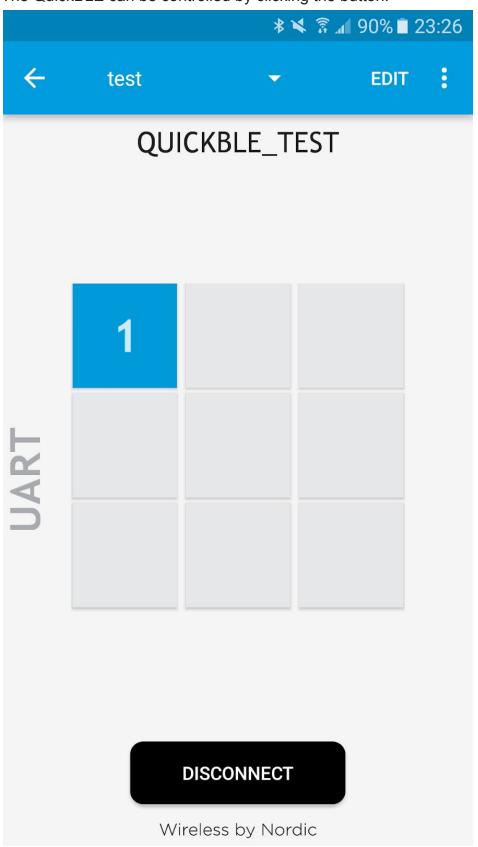
To "Enter command" enter the instruction, select the button symbol in "Select icon", and click "OK" when the setting is completed.



Click "DONE" to complete the button settings.



The QuickBLE can be controlled by clicking the button.



E, Command

Command	Action	
buzzerON	Open Buzzer	
buzzerOFF	Close Buzzer	
usb1ON	Open USB1	
usb1OFF	Close USB1	
usb2ON	Open USB2	
usb2OFF	Close USB2	
relay1ON	Open Relay1	
relay10FF	Close Relay1	
relay2ON	Open Relay2	
relay2OFF	Close Relay2	
DO1HIGH	Pin6 Output 5V	
DO1LOW	Pin6 Output 0V	
DO2HIGH	Pin7 Output 5V	
DO2LOW	Pin7 Output 0V	
Pin1State	Pin 1 Input 5V,Respond "PIN1 is HIGH" Pin 1 Input 0V,Respond "PIN1 is LOW"	
Pin2State	Pin 2 Input 5V,Respond "PIN2 is HIGH" Pin 2 Input 0V,Respond "PIN2 is LOW"	
Pin3State	Pin 3 Input 5V,Respond "PIN3 is HIGH" Pin 3 Input 0V,Respond "PIN3 is LOW"	