REPORT LAB EMBEDDED SYSTEM - CO3054

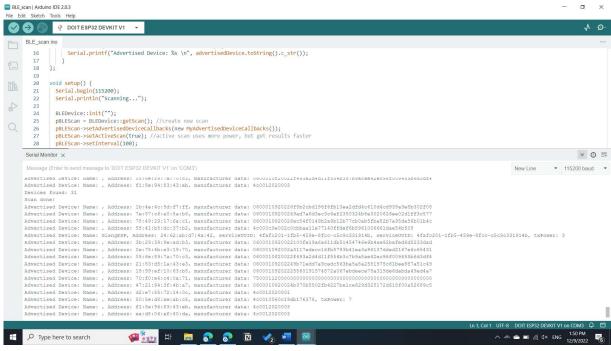
Group: CC02

Student: Durong Gia An – 1952163

Contents

I.	BLE with ESP32 on Arduino IDE	2
II.	ESP32 BLE SCANNER Result:	2
III.	ESP32 BLE SEVER with sever name: "ESP32 Gia An 1952163"	2
	ESP32 BLE SEVER WITH SMARTPHONE	

I. BLE with ESP32 on Arduino IDE



II. ESP32 BLE SCANNER

Result:

```
Devices found: 31
Scan done!
Advertised Device: Name: , Address: 42:97:02:07:7f:7a, manufacturer data: 4c001005141c463802, txPower: 12
Advertised Device: Name: , Address: 3b:29:39:9e:ad:b3, manufacturer data: 0600010920022100fe19a6a611db51454746e9b4ae92bafed6d8233dad
Advertised Device: Name: , Address: 1b:4e:4c:5d:f7:ff, manufacturer data: 0600010920226f5b2cbd196f6fb13ea2dfd4c610d4cd939a3e8b302f08
                                                 Address: d2:e7:85:72:14:0c, manufacturer data: 4c0012020001
Address: 58:41:b8:dc:37:b2, manufacturer data: 4c000c0e00270c3d62ceac49b756c9ce0e541006661dae54b508
Advertised Device: Name: ,
Advertised Device: Name: , Address: 3:5:11.00:doi:3:122, manufacturer data: 100000100270031022042750750500000010000104357507
Advertised Device: Name: , Address: 70:5:7:06:00:5:8:50, manufacturer data: 00000109200249847463020626669230312966902011630577
Advertised Device: Name: GiangESP, Address: 24:62:ab:d7:4a:42, serviceUUID: 4fafc201-1fb5-459e-8fcc-c5c9c331914b, serviceUUID: 4fafc201-1fb5-459e-8fcc-c5c9c3
Advertised Device: Name: , Address: 78:49:29:17:6a:c1, manufacturer data: 0600010920026ec84f0149b2a9b12b77cb0ab5fba82b7a95de56b01b4c
Advertised Device: Name: , Address: 5b:76:85:75:39:65, manufacturer data: 4c001005571cb36f19, txPower: 7
Advertised Device: Name: 1952536, Address: 24:6f:28:ae:8f:02, serviceUUID: 4fafc201-1fb5-459e-8fcc-c5c9c331914b, serviceUUID: 4fafc201-1fb5-459e-8fcc-c5c9c33
Advertised Device: Name: , Address: 18:99:ef:10:63:b8, manufacturer data: 06000109202225860191574872a067ebdeece75a319de6dabda49ed4a7
Advertised Device: Name: ,
Advertised Device: Name: ,
                                                 Address: 47:21:94:3f:4b:a7, manufacturer data: 0600010920024b370b5502fb4227belce629d325172d618f00a52689c5
Address: 07:a9:50:e1:06:4b, manufacturer data: 060001092002de9e79e16c0a86712fdecac67776d6403518e4e03b14ca
Advertised Device: Name:
Advertised Device: Name:
                                                 Address: 48:cd:05:79:c7:9b, manufacturer data: 4c001005161c64b1c1, txPower: 12 Address: 77:1b:60:e9:b2:60, manufacturer data: 4c0010063f1a84d819b7, txPower: 8
                                                 Address: f1:8e:94:83:43:eb, manufacturer data: 4c0012020003
Address: 2c:52:57:12:d9:al, manufacturer data: 0600010f2002d9303541e87913297a3da95f7ce62e46ae0b21d53a3dd1
Address: 3c:59:49:78:7a:da, manufacturer data: 0600010f2002b84b9b5eaad7350220b104af4bc814d4b1f635064e4bdb
Advertised Device: Name:
Advertised Device: Name: , Advertised Device: Name: ,
Advertised Device: Name:
                                                 Address: c8:0d:de:fc:a4:cc, manufacturer data: 4c0012020000
                                                 Address: 21:83:d5:la:43:e3, manufacturer data: 06000109202249b7ledd7a9cedc563ba5a8a2581975c61bee987a51c49
Address: 40:c7:49:6b:b7:9b, manufacturer data: 4c0010062d1a86923ca1, txPower: 7
Advertised Device: Name: ,
Advertised Device: Name: , Advertised Device: Name: ,
                                                 Advertised Device: Name: ,
                                                 Address: 50:5e:d8:ae:ab:c5, manufacturer data: 4c0010060c19db176378, txPower: 7
Advertised Device: Name: , Address: cb:07:95:48:5d:ec, manufacturer data: 4c0012020002
Advertised Device: Name: , Address: cb:07:95:48:5d:ec, manufacturer data: 4c0012020000
Advertised Device: Name: , Address: db:1c:37:d8:a7:be, manufacturer data: 4c0012020002
```

III. ESP32 BLE SEVER with sever name: "ESP32 Gia An 1952163"

```
Output Serial Monitor X

| Message (Enter to send message to 'DOIT ESP32 DEVKIT V1' on 'COM3') | New Line | T15200 baud | Tst:0x1 (POWERON_RESET), boot:0x13 (SPI_FAST_FLASH_BOOT) | Configsip: 0, SPIWP:0xee | clk_drv:0x00,q_drv:0x00,d_drv:0x00,cs0_drv:0x00,hd_drv:0x00,wp_drv:0x00 | mode:DIO, clock div:1 | load:0x3fff0030,len:1184 | load:0x40078000,len:13160 | load:0x40080400,len:3036 | entry 0x400805e4 | Starting BLE work! | Characteristic defined! Now you can read it in your phone!
```

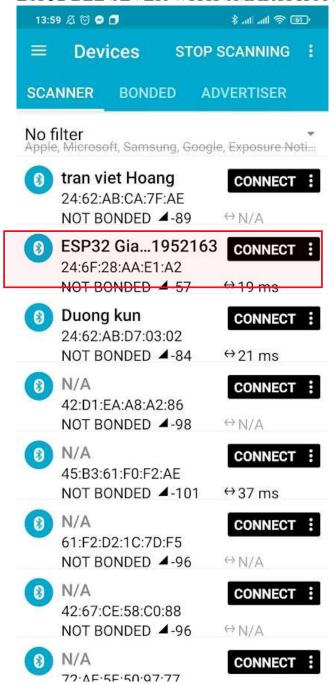
BLE name setup:

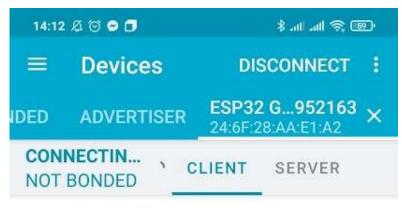
```
BLEDevice::init("ESP32 Gia An 1952163");
```

Set Characteristic:

```
pCharacteristic->setValue("This is ES Lab 4 from Duong Gia An - 195163");
```

IV. ESP32 BLE SEVER WITH SMARTPHONE





Generic Attribute

UUID: 0x1801

PRIMARY SERVICE

Generic Access

UUID: 0x1800

PRIMARY SERVICE

Unknown Service

UUID: 69a87d99-f2d3-4b5f-ba31-2a6b6a94a

PRIMARY SERVICE

Unknown Characteristic

UUID: 35480e82-188e-4b6b-bc77-1dde5f...

Properties: READ, WRITE

Value: (0x) 54-68-69-73-20-69-73-20-45-5 3-20-4C-61-62-20-34-20-66-72-6F-6D-20-44-75-6F-6E-67-20-47-69-61-20-41-6E-20-2 D-20-31-39-35-32-31-36-33, "This is ES Lab 4 from Duong Gia An - 1952163"