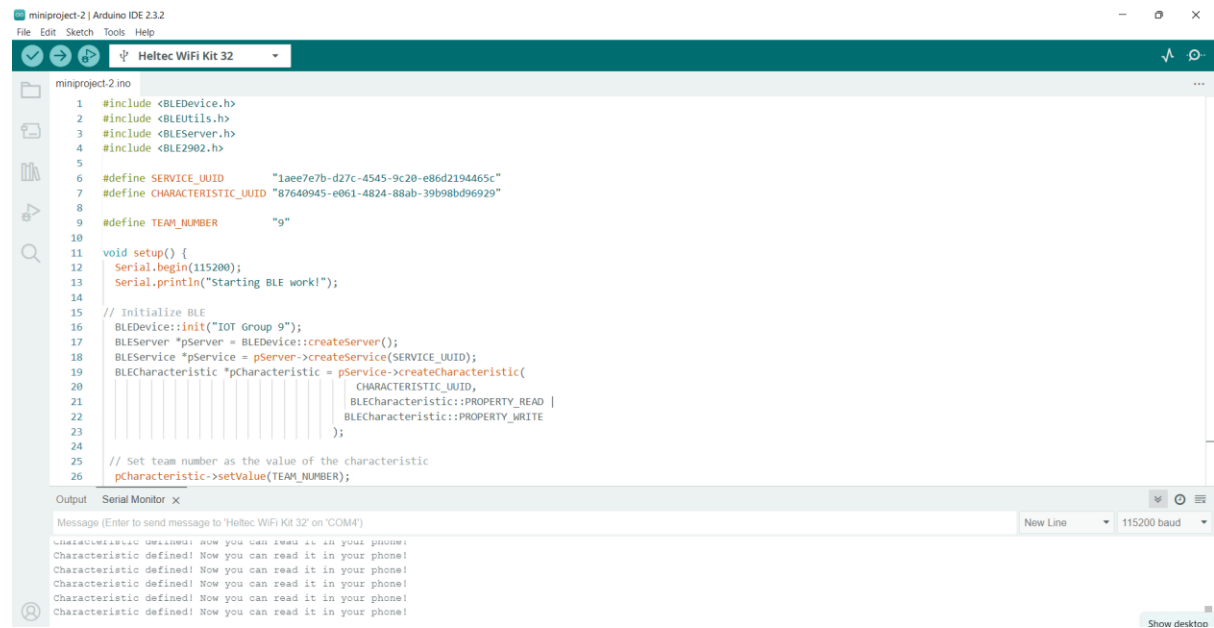


I am providing the screenshots of the code with output for Mini Project #2 (Team - 9)

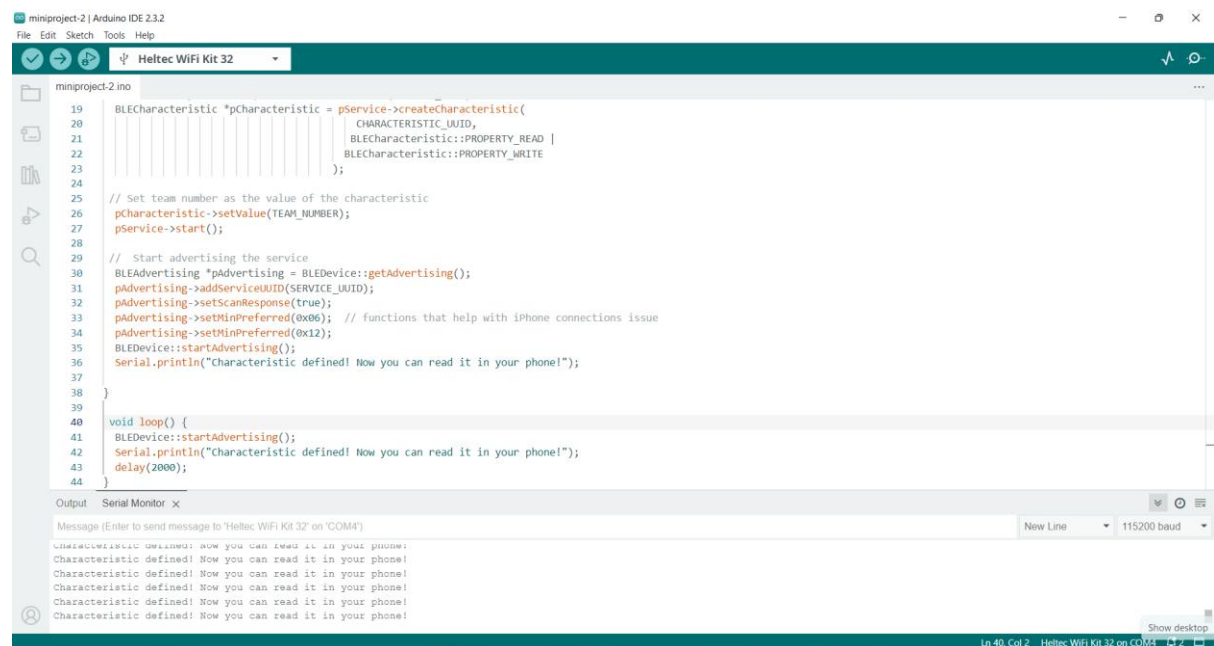


```
1 #include <BLEDevice.h>
2 #include <BLEUtils.h>
3 #include <BLEServer.h>
4 #include <BLE2902.h>
5
6 #define SERVICE_UUID          "1aee7e7b-d27c-4545-9c20-e86d219465c"
7 #define CHARACTERISTIC_UUID   "87640945-e061-4824-88ab-39b98bd96929"
8
9 #define TEAM_NUMBER           "9"
10
11 void setup() {
12   Serial.begin(115200);
13   Serial.println("Starting BLE work!");
14
15   // Initialize BLE
16   BLEDevice::init("IOT Group 9");
17   BLEServer *pServer = BLEDevice::createServer();
18   BLEService *pService = pServer->createService(SERVICE_UUID);
19   BLECharacteristic *pCharacteristic = pService->createCharacteristic(
20     CHARACTERISTIC_UUID,
21     BLECharacteristic::PROPERTY_READ |
22     BLECharacteristic::PROPERTY_WRITE
23   );
24
25   // Set team number as the value of the characteristic
26   pCharacteristic->setValue(TEAM_NUMBER);
27 }
```

Output Serial Monitor x

Message (Enter to send message to 'Heltec WiFi Kit 32' on 'COM4')

Characteristic defined! Now you can read it in your phone!
Characteristic defined! Now you can read it in your phone!
Characteristic defined! Now you can read it in your phone!
Characteristic defined! Now you can read it in your phone!
Characteristic defined! Now you can read it in your phone!



```
19 BLECharacteristic *pCharacteristic = pService->createCharacteristic(
20   CHARACTERISTIC_UUID,
21   BLECharacteristic::PROPERTY_READ |
22   BLECharacteristic::PROPERTY_WRITE
23 );
24
25 // Set team number as the value of the characteristic
26 pCharacteristic->setValue(TEAM_NUMBER);
27 pService->start();
28
29 // Start advertising the service
30 BLEAdvertising *pAdvertising = BLEDevice::getAdvertising();
31 pAdvertising->addServiceUUID(SERVICE_UUID);
32 pAdvertising->setScanResponse(true);
33 pAdvertising->setMinPreferred(0x06); // functions that help with iPhone connections issue
34 pAdvertising->setMinPreferred(0x12);
35 BLEDevice::startAdvertising();
36 Serial.println("Characteristic defined! Now you can read it in your phone!");
37
38 }
39
40 void loop() {
41   BLEDevice::startAdvertising();
42   Serial.println("Characteristic defined! Now you can read it in your phone!");
43   delay(2000);
44 }
```

Output Serial Monitor x

Message (Enter to send message to 'Heltec WiFi Kit 32' on 'COM4')

Characteristic defined! Now you can read it in your phone!
Characteristic defined! Now you can read it in your phone!
Characteristic defined! Now you can read it in your phone!
Characteristic defined! Now you can read it in your phone!
Characteristic defined! Now you can read it in your phone!

Ln 40, Col 2 Heltec WiFi Kit 32 on COM4 2