

아두이노 블루투스 통신

❖ BtMiniCom.h

```
#pragma once

#include <Arduino.h>
#include <MiniCom.h>
#include <SoftwareSerial.h>

typedef void (*bt_callback_t)(String line);

class BtMiniCom : public MiniCom{
protected:
    SoftwareSerial btSerial;
    bt_callback_t callback;

public:
    BtMiniCom(int rx, int tx,  bt_callback_t callback=NULL);
    void init();
    void send(const char *msg);
    String readLine();
    void run();

};
```

❖ BtMiniCom.cpp

```
#include "BtMiniCom.h"

BtMiniCom::BtMiniCom(int rx, int tx,  bt_callback_t callback)
    : MiniCom(), btSerial(rx, tx){
    this->callback = callback;
}

void BtMiniCom::init() {
    btSerial.begin(9600);
    MiniCom::init();
}

void BtMiniCom::send(const char *msg) {
    btSerial.println(msg);
}
```

❖ BtMiniCom.cpp

```
String BtMiniCom::readLine() {
    String line = "";
    while(btSerial.available()) {
        char ch = btSerial.read();
        if(ch == '\r') continue;
        if(ch == '\n') break;
        line += ch;
        delay(5);
    }
    return line;
}

void BtMiniCom::run() {
    String line = readLine();
    if(line != "" && callback != NULL) {
        callback(line);
    }
    MiniCom::run();
}
```

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❖ app.ino

```
#include <BtMiniCom.h>

void receive(String line);

BtMiniCom com(2, 3, receive);

void setup(){
    com.init();
    com.print(0, "MiniCom Start");
}

void loop() {
    com.run();
}

void receive(String line) {
    com.print(0, line.c_str());
}
```