

◆ Execution Steps

1. **Open Arduino IDE** on your computer.
2. **Connect your Arduino UNO** via USB.
3. **Paste this code** into a new sketch:

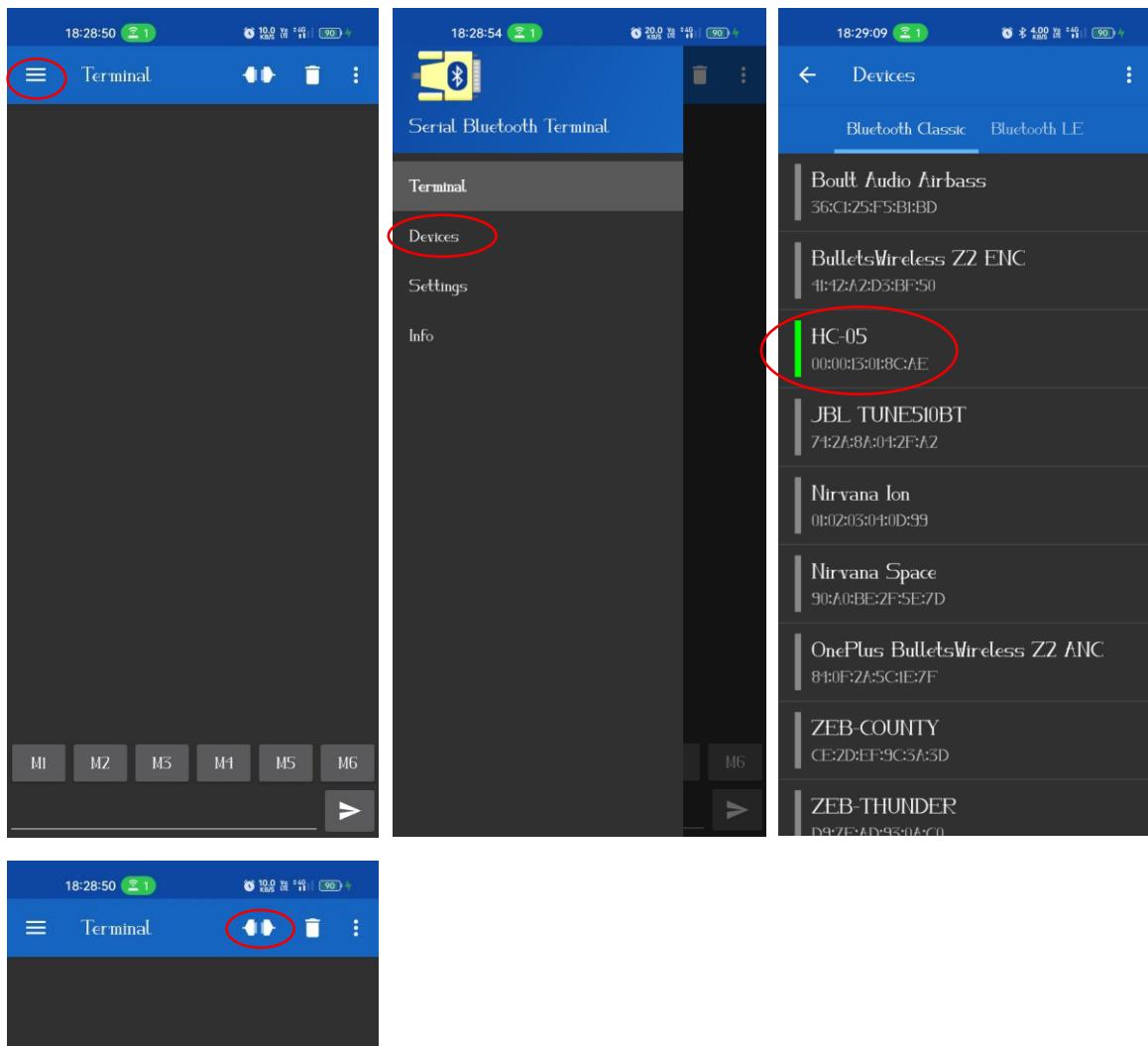
```
#include <SoftwareSerial.h>
SoftwareSerial BTSerial(2, 3); // RX, TX

void setup() {
  Serial.begin(9600);
  BTSerial.begin(9600);
  Serial.println("Bluetooth ready");
}

void loop() {
  if (BTSerial.available())
    Serial.write(BTSerial.read());
  if (Serial.available())
    BTSerial.write(Serial.read());
}
```

NOTE: CODE IS PRESENT IN THE ARDUINO IDE ALREADY
GO TO File → Open → choose “Exp_7”

4. **Upload the code** to your UNO (Ctrl + U).
5. **Open Serial Monitor** (Ctrl + Shift + M):
 - Baud rate: **9600**
 - Line ending: **No line ending**
6. **Power your HC-05** (it should already be wired to the UNO).
 - LED should blink **fast** (2 blinks per second) = normal mode.
7. **On your Android phone:**
 - Open **Serial Bluetooth Terminal** app.
 - Go to **Settings → Devices → “HC-05” → tap Connect.**
 - The LED on the module will change to **slow double blink or steady on** (connected).



8. Test communication:

- In the phone app, type a message → press send → you'll see it appear in Arduino Serial Monitor.
- In Arduino Serial Monitor, type a message → press send → it appears instantly in the phone app.