

PL2303G Android SOP



Agenda

- Introduction
- JDK
 - JDK Path Setting
 - JDK version check
- Android Studio – Build PL2303 Project
- Run PL2303 Demo App

Introduction

- Please follow the training to learn that is useful.

<http://code.google.com/p/androidbmi/wiki/IntroAndroid>

1. **JDK**
2. **Android Studio**
3. **Android SDK**

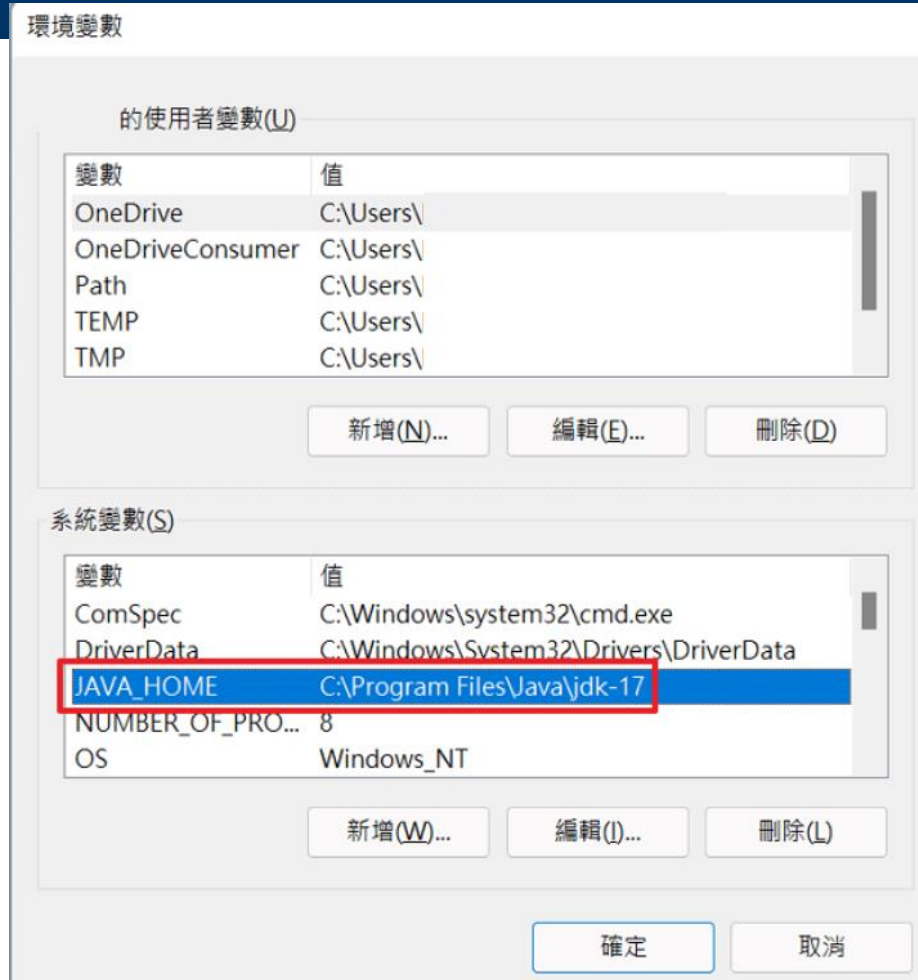
- Java: install the JDK set path with classpath path
- Download JDK :
<https://www.oracle.com/tw/java/technologies/downloads/>
- <https://www.kjnotes.com/devtools/35>

JDK

← → ▾ ↑ C:\Program Files (x86)\Java ▾ ↻ 🔍 搜尋 Java

✓ ★ 快速存取	名稱	修改日期	類型
🖥️ 桌面	jdk1.7.0_07	2022/7/13 上午 11:05	檔案資料夾

JDK Path Setting

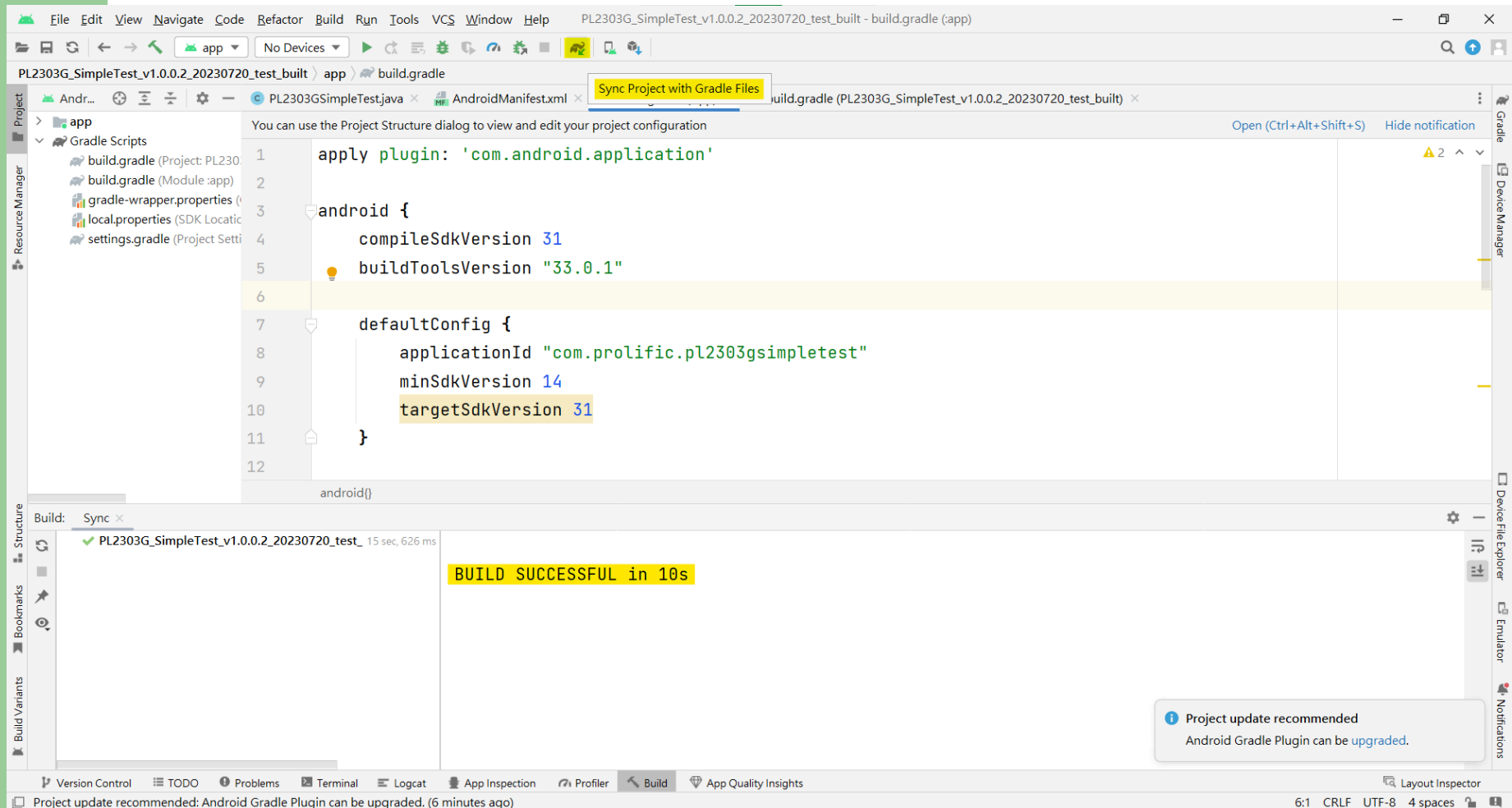


JDK version check

- cmd -> java -version

```
C:\Windows\System32>java -version
java version "17.0.7" 2023-04-18 LTS
Java(TM) SE Runtime Environment (build 17.0.7+8-LTS-224)
Java HotSpot(TM) 64-Bit Server VM (build 17.0.7+8-LTS-224, mixed mode, sharing)
```

Android Studio – Build PL2303 Project

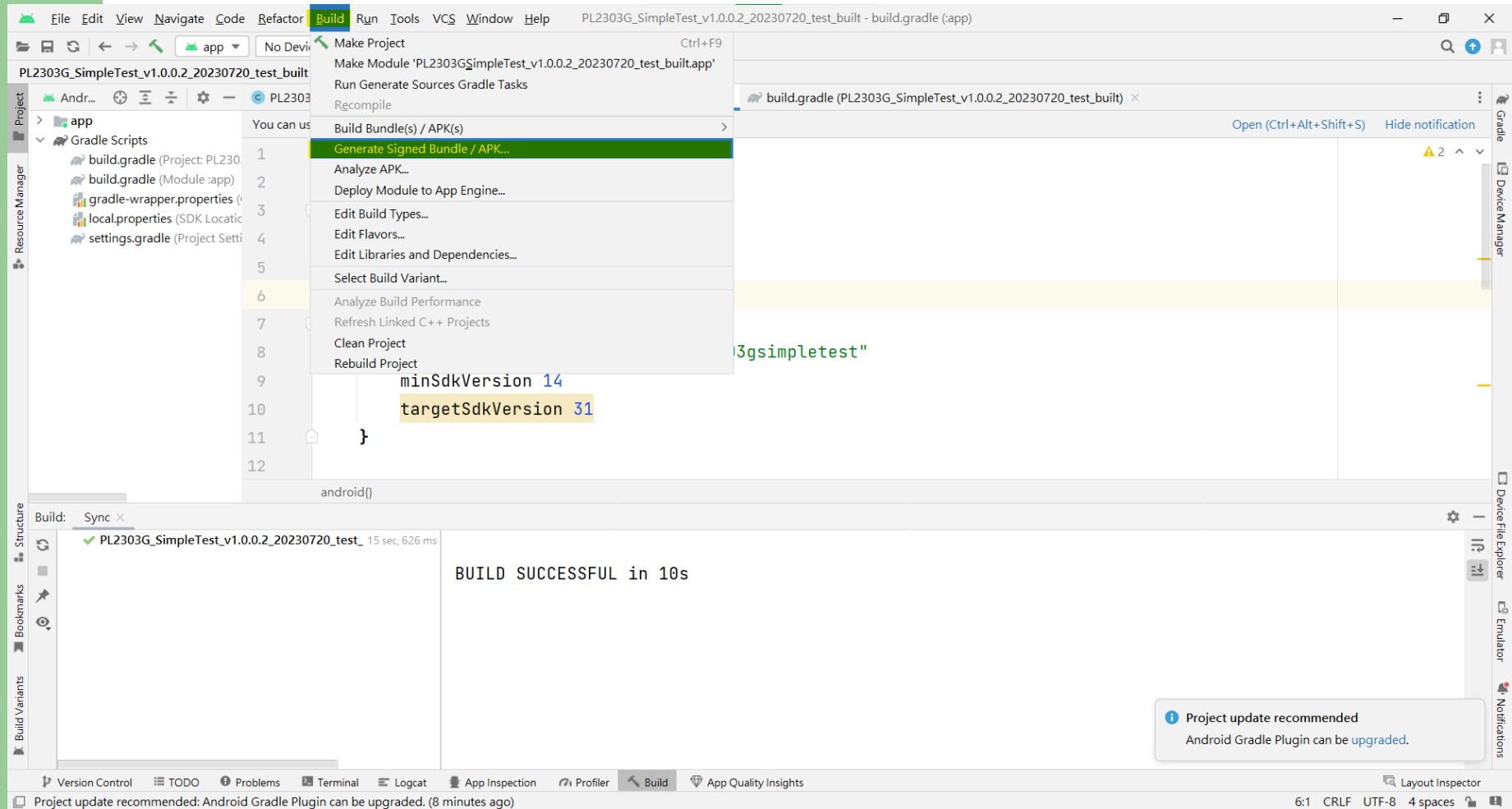


The screenshot displays the Android Studio IDE with the following components:

- Top Bar:** Menus (File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, VCS, Window, Help) and a toolbar with icons for running, debugging, and other actions.
- Project Structure:** The left sidebar shows the project hierarchy for "PL2303G_SimpleTest_v1.0.0.2_20230720_test_built". The "app" module is selected, showing its "build.gradle" file.
- Code Editor:** The main editor displays the "build.gradle" file for the "app" module. The code is as follows:

```
1  apply plugin: 'com.android.application'
2
3  android {
4      compileSdkVersion 31
5      buildToolsVersion "33.0.1"
6
7      defaultConfig {
8          applicationId "com.prolific.pl2303gsimpletest"
9          minSdkVersion 14
10         targetSdkVersion 31
11     }
12 }
```
- Build Output:** The bottom panel shows the build progress. A message indicates "BUILD SUCCESSFUL in 10s".
- Notifications:** A notification in the bottom right corner states: "Project update recommended: Android Gradle Plugin can be upgraded."

Build -> Generate Signed Bundle / APK



The screenshot shows an IDE interface with the 'Build' menu open. The 'Generate Signed Bundle / APK...' option is highlighted. The build output window at the bottom shows a successful build for 'PL2303G_SimpleTest_v1.0.0.2_20230720_test'.

Build Menu Options:

- Make Project (Ctrl+F9)
- Make Module 'PL2303G_SimpleTest_v1.0.0.2_20230720_test_built.app'
- Run Generate Sources Gradle Tasks
- Recompile
- You can use:
 - Build Bundle(s) / APK(s)
 - Generate Signed Bundle / APK...**
 - Analyze APK...
 - Deploy Module to App Engine...
 - Edit Build Types...
 - Edit Flavors...
 - Edit Libraries and Dependencies...
 - Select Build Variant...
 - Analyze Build Performance
 - Refresh Linked C++ Projects
 - Clean Project
 - Rebuild Project


Build Output:

```
Build: Sync x
✓ PL2303G_SimpleTest_v1.0.0.2_20230720_test_ 15 sec, 626 ms
BUILD SUCCESSFUL in 10s
```

Project Update Notification:

Project update recommended
Android Gradle Plugin can be [upgraded](#).

AAB or APK

 Generate Signed Bundle or APK ✕

☒ **Android App Bundle** For Google Play


Generate a signed app bundle for upload to app stores for the following benefits:

- Smaller download size
- On-demand app features
- Asset-only modules

[Learn more](#) ↗

☐ **APK** For machine

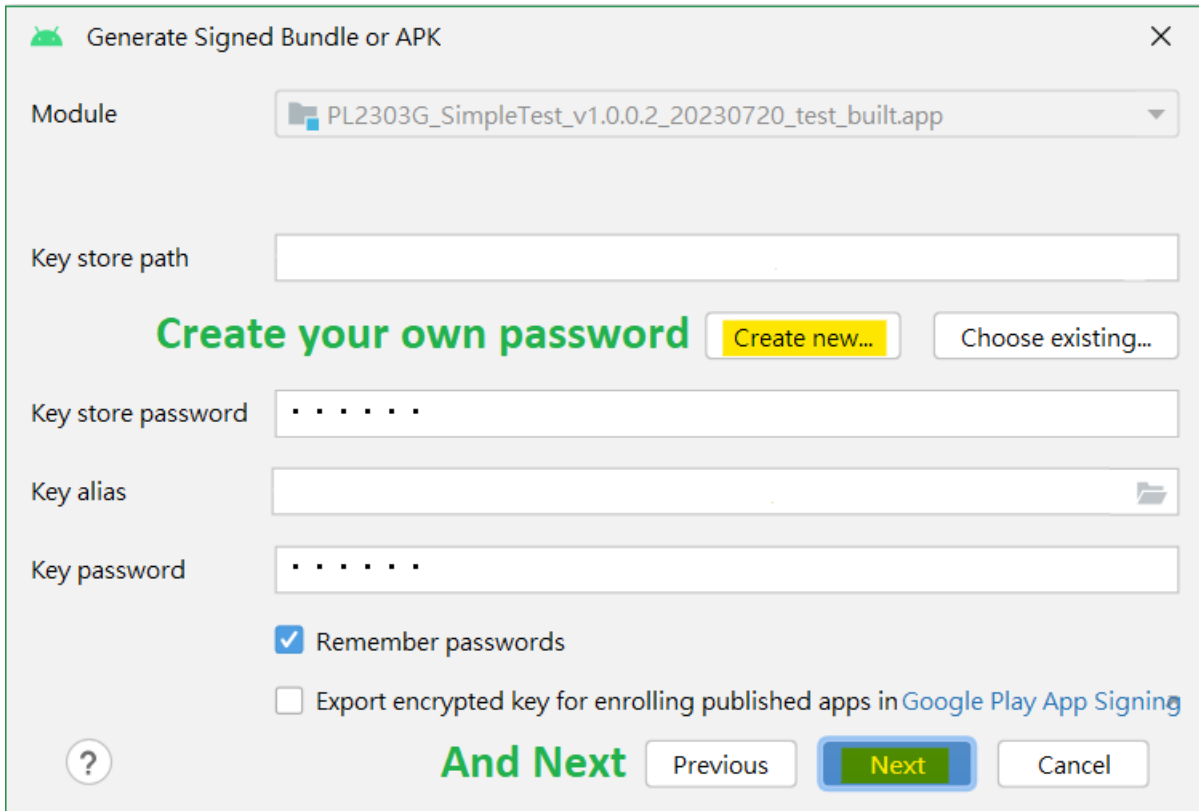
Build a signed APK that you can deploy to a device



Next

Cancel

Create your own password



Generate Signed Bundle or APK

Module: PL2303G_SimpleTest_v1.0.0.2_20230720_test_built.app

Key store path:

Create your own password Create new... Choose existing...

Key store password:

Key alias:

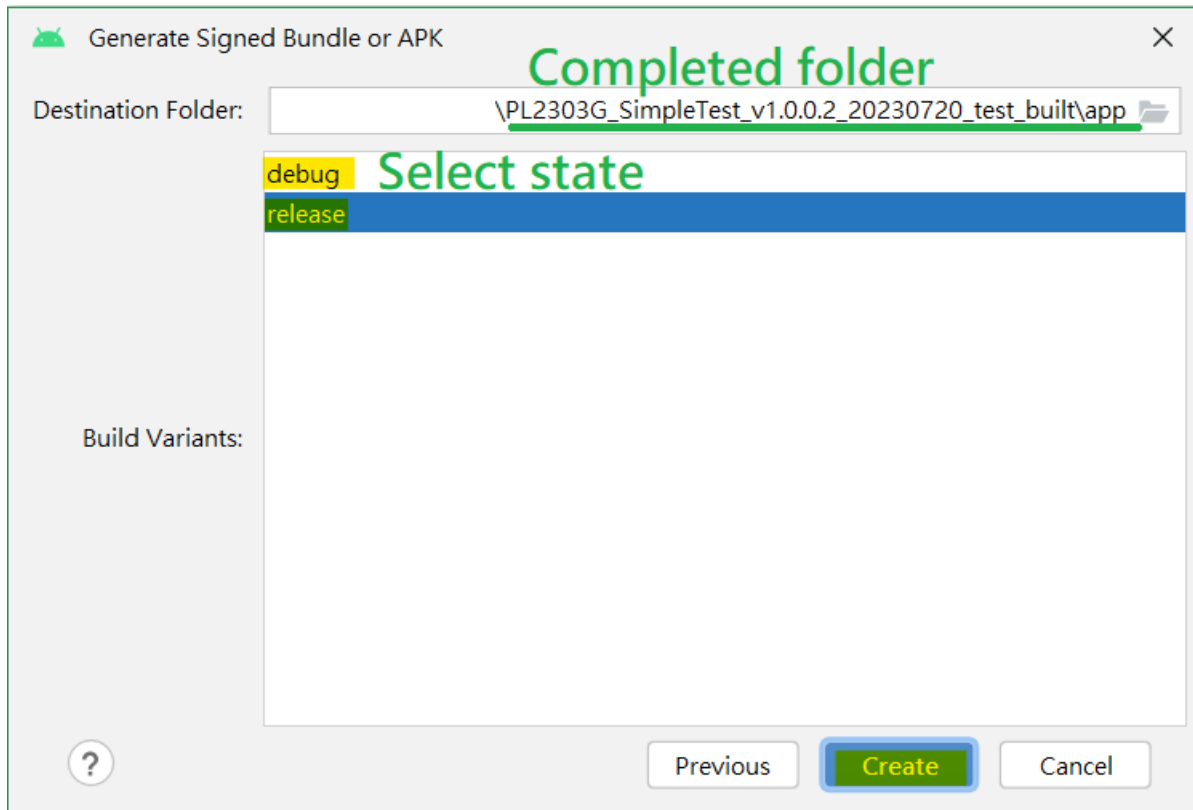
Key password:

☒ Remember passwords

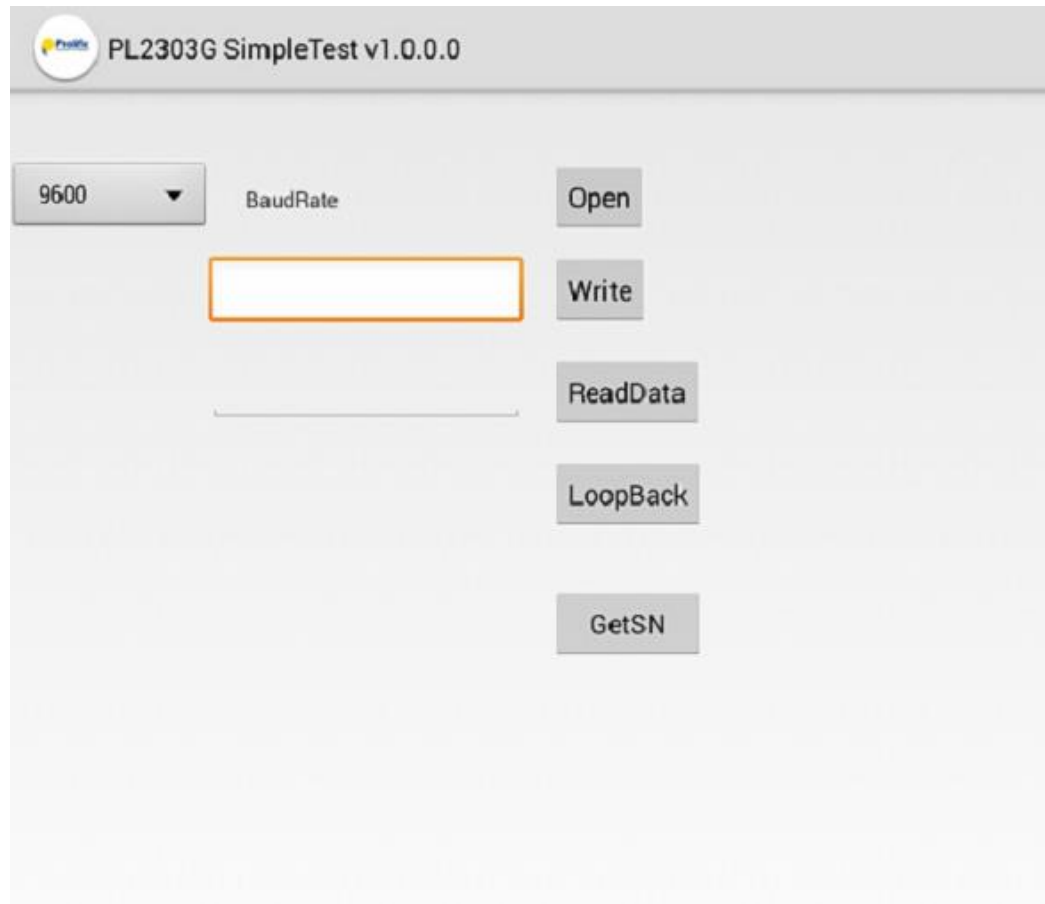
☐ Export encrypted key for enrolling published apps in [Google Play App Signing](#)

And Next Previous Next Cancel

Create state & completed folder



Run PL2303 Demo App



The screenshot shows the 'PL2303G SimpleTest v1.0.0.0' application window. It features a dropdown menu for 'BaudRate' currently set to '9600'. Below this is a text input field with an orange border, which is currently empty. To the right of the input field are five buttons: 'Open', 'Write', 'ReadData', 'LoopBack', and 'GetSN'. The 'Write' button is positioned directly to the right of the text input field.