Use Android Emulator

A. Install Android Studio

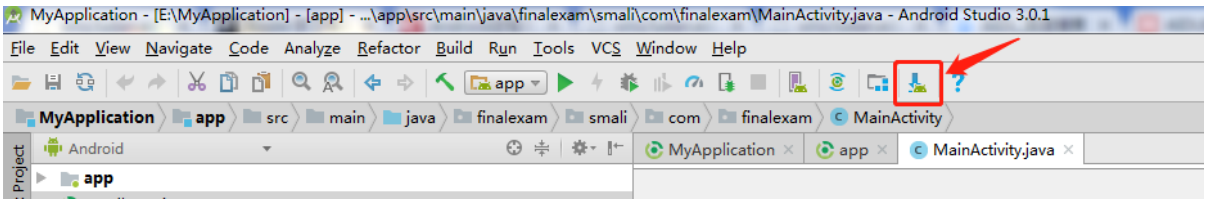
Just download and install Android Studio follow the guide here with a few clicks.

Note:

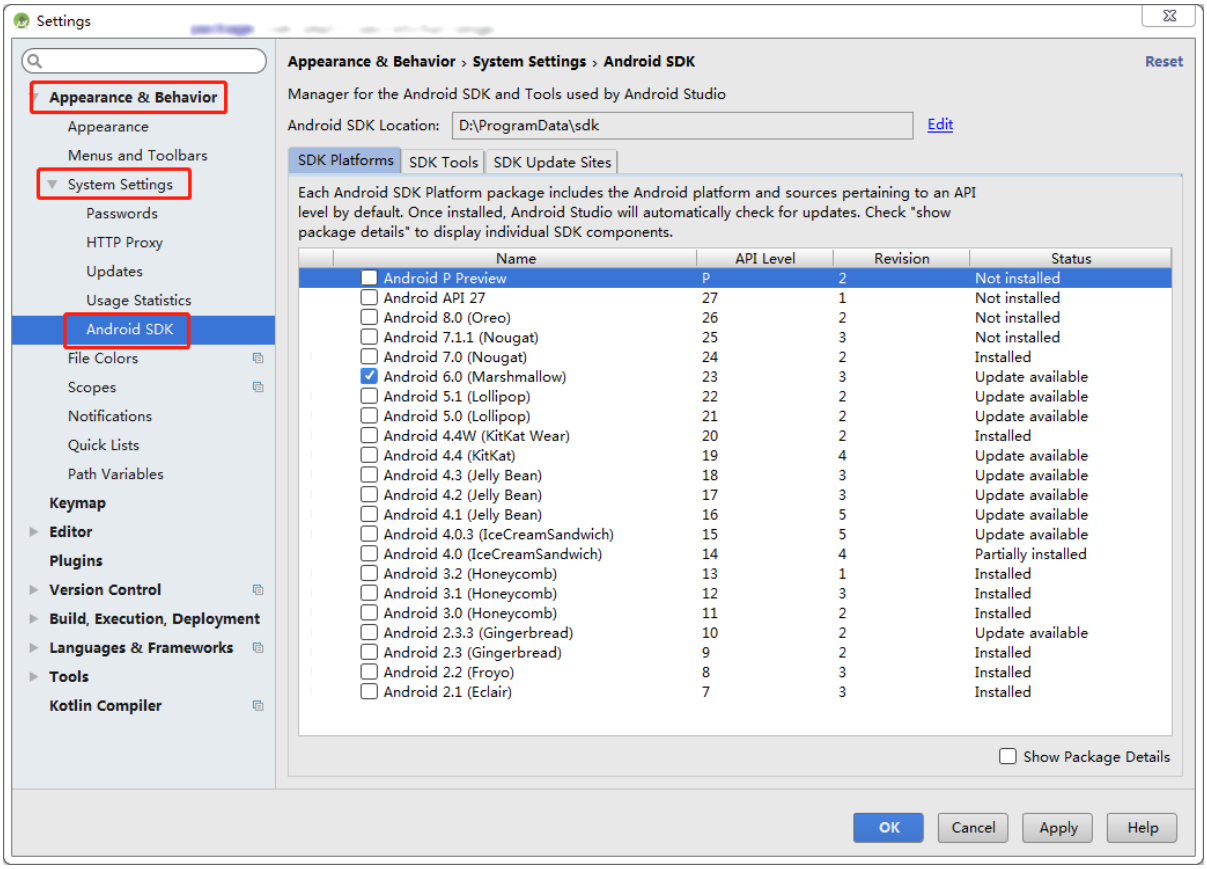
- Almost all you want to know about how to use Android Studio is on the site.
- Local download link for Android Studio.
  - windows 64bit
  - Mac
  - Linux

B. Install Android SDK

1. Open Android Studio after your installation is complete.
2. You can start setting your sdk from either choice below.
   - Click the button shown

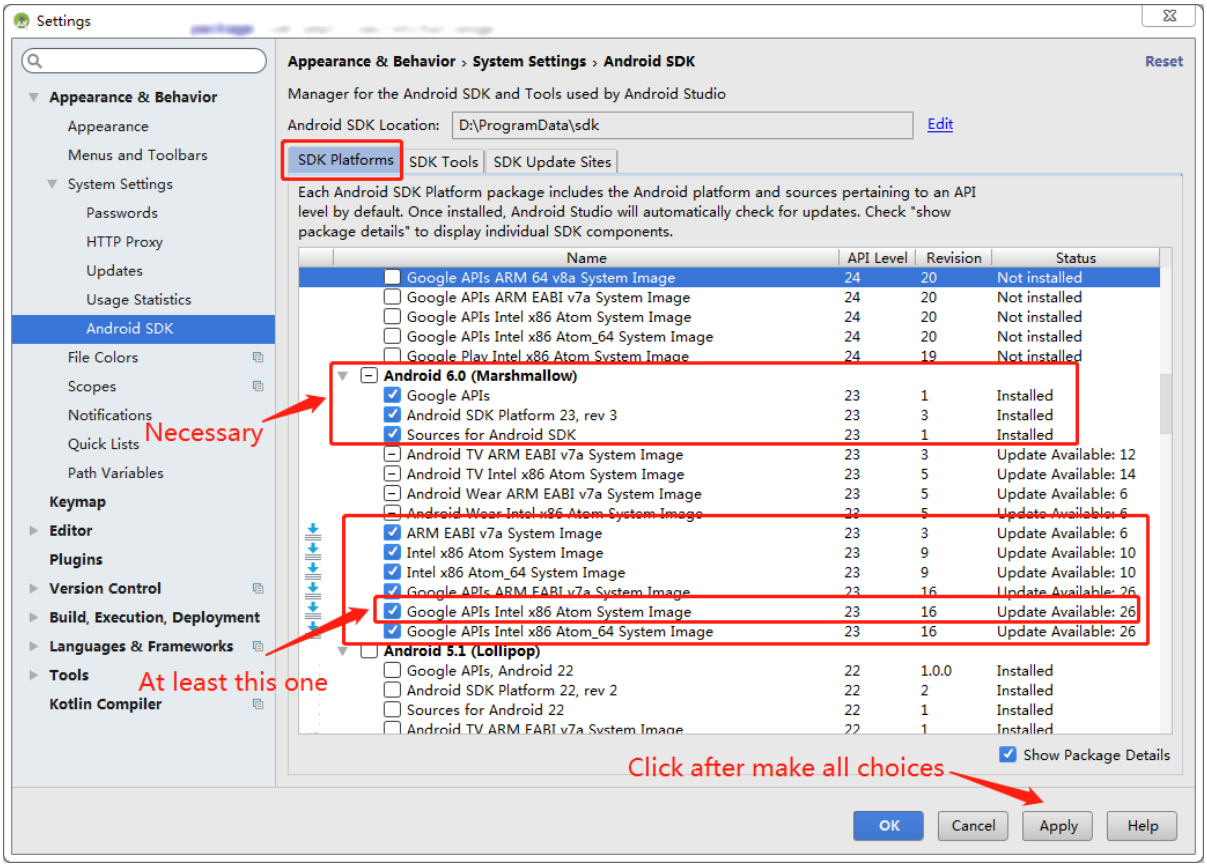


   - Click **File->Settings**, click **Appearance & Behavior**, then click **Android SDK** in **System Settings** tab.

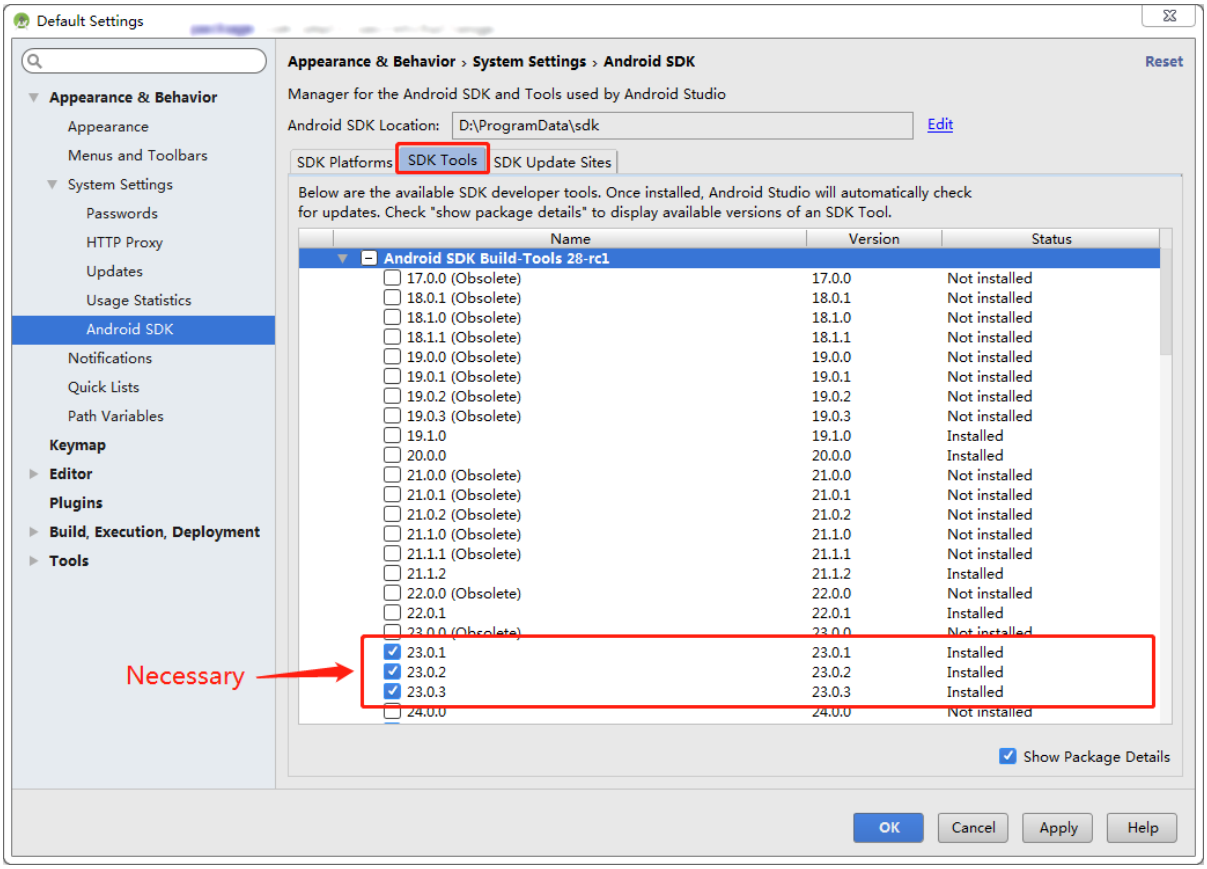


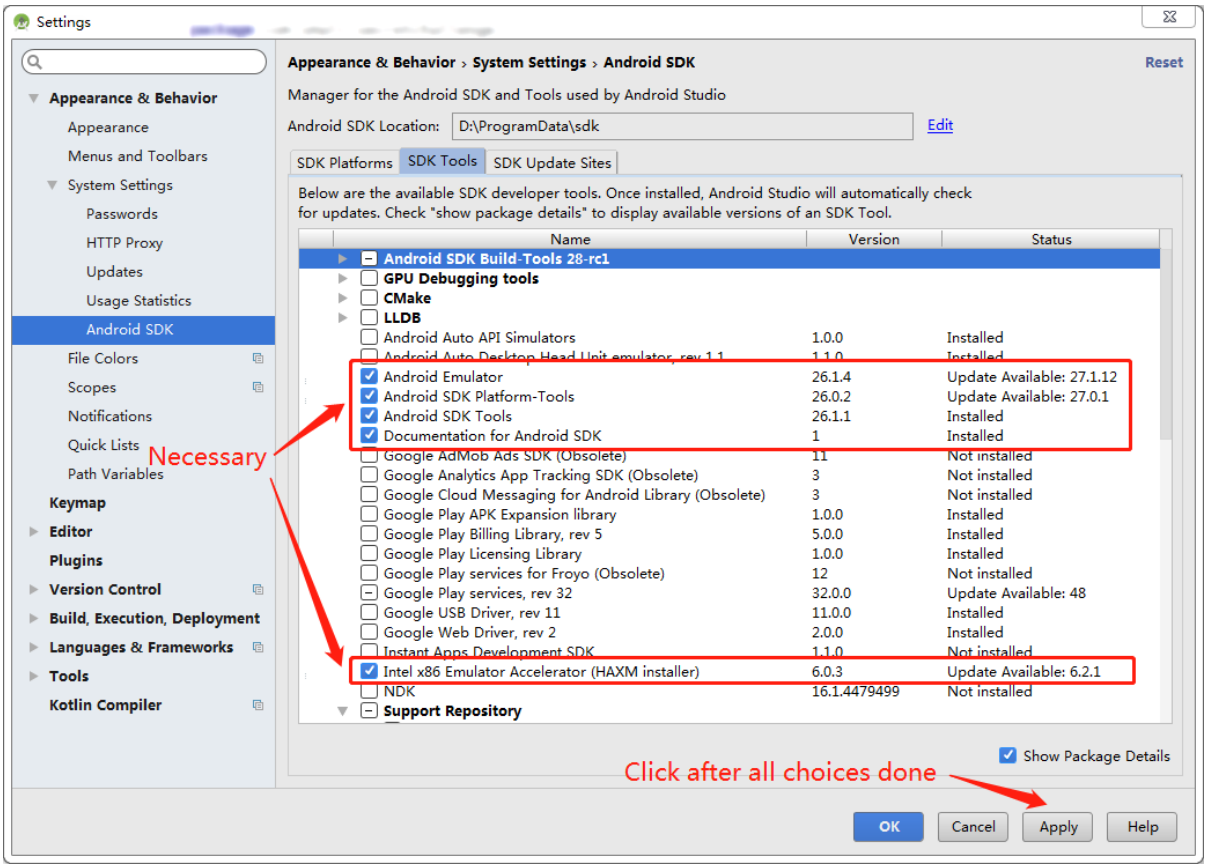
3. The target SDK we use in this lab is **Android 6.0 API Level 23**.

- Necessary installation under **SDK Platforms**.



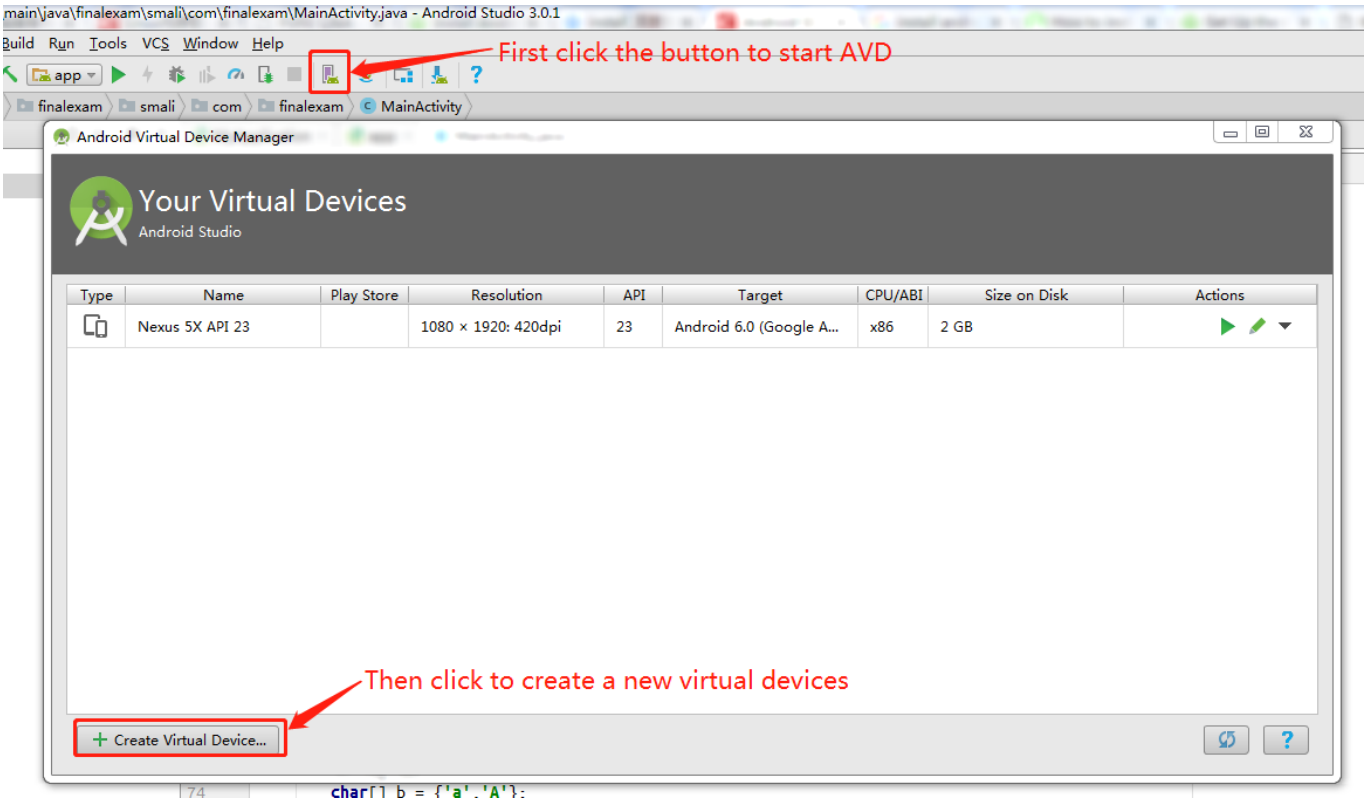
- Necessary installation under **SDK Tools**.

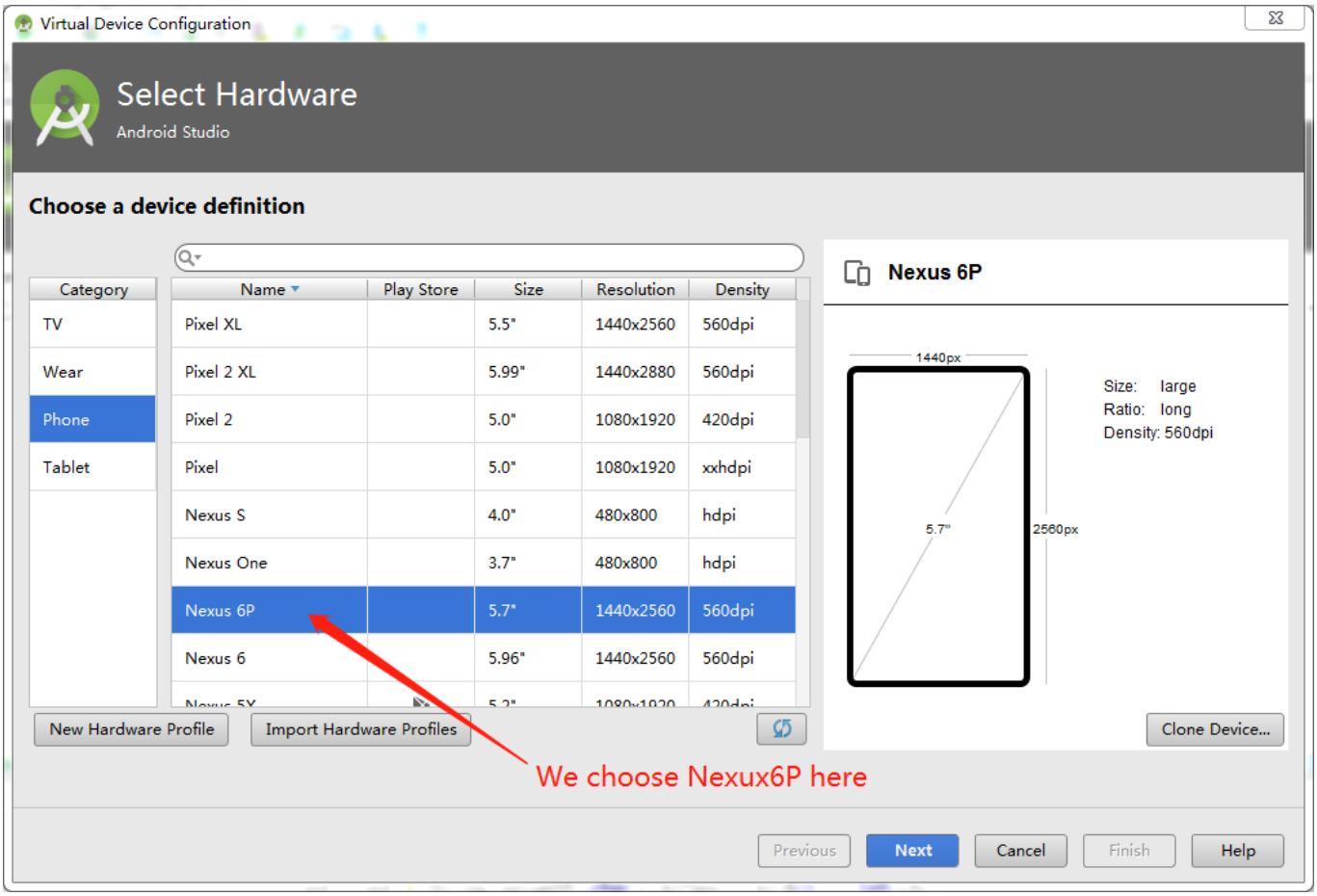


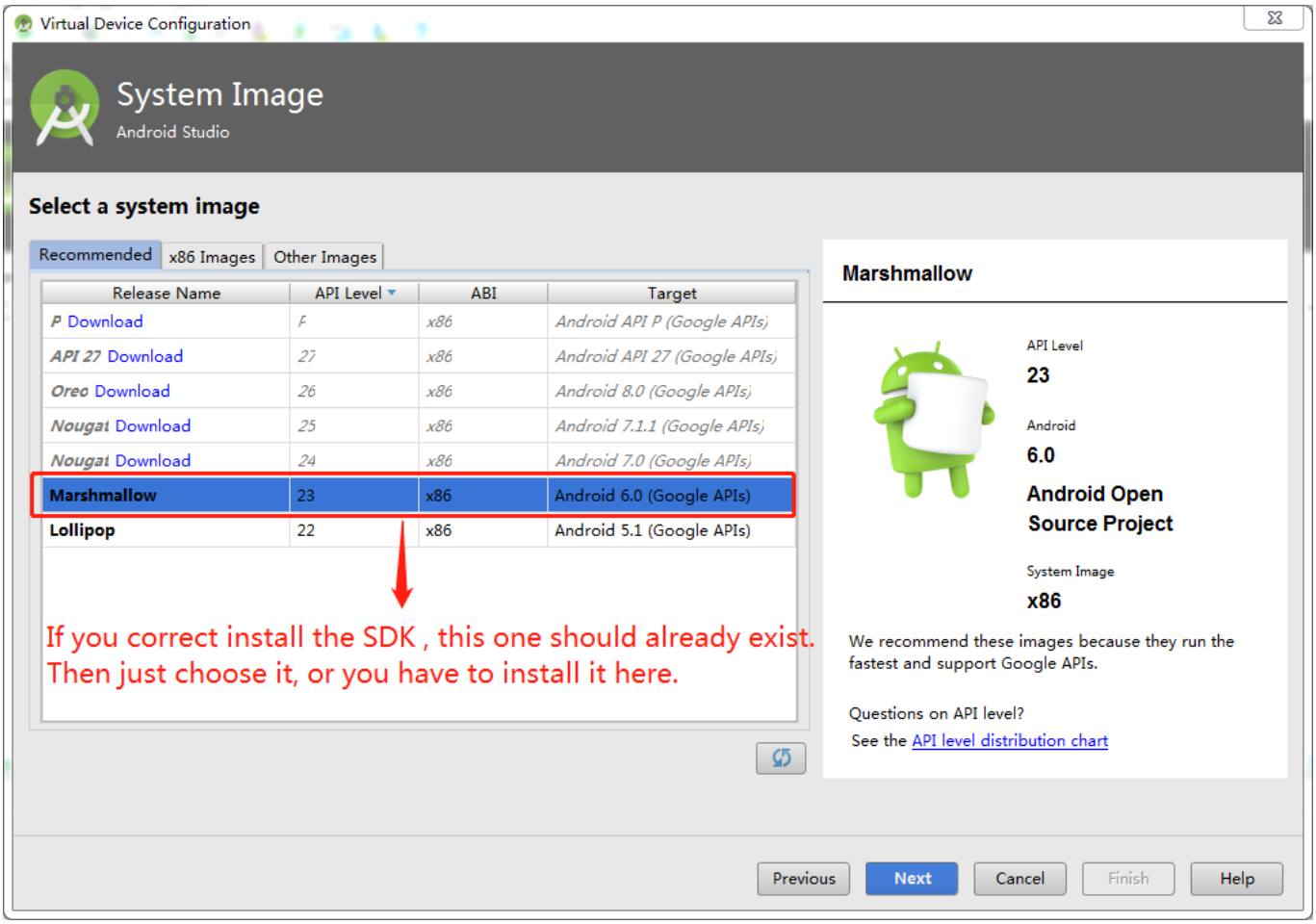


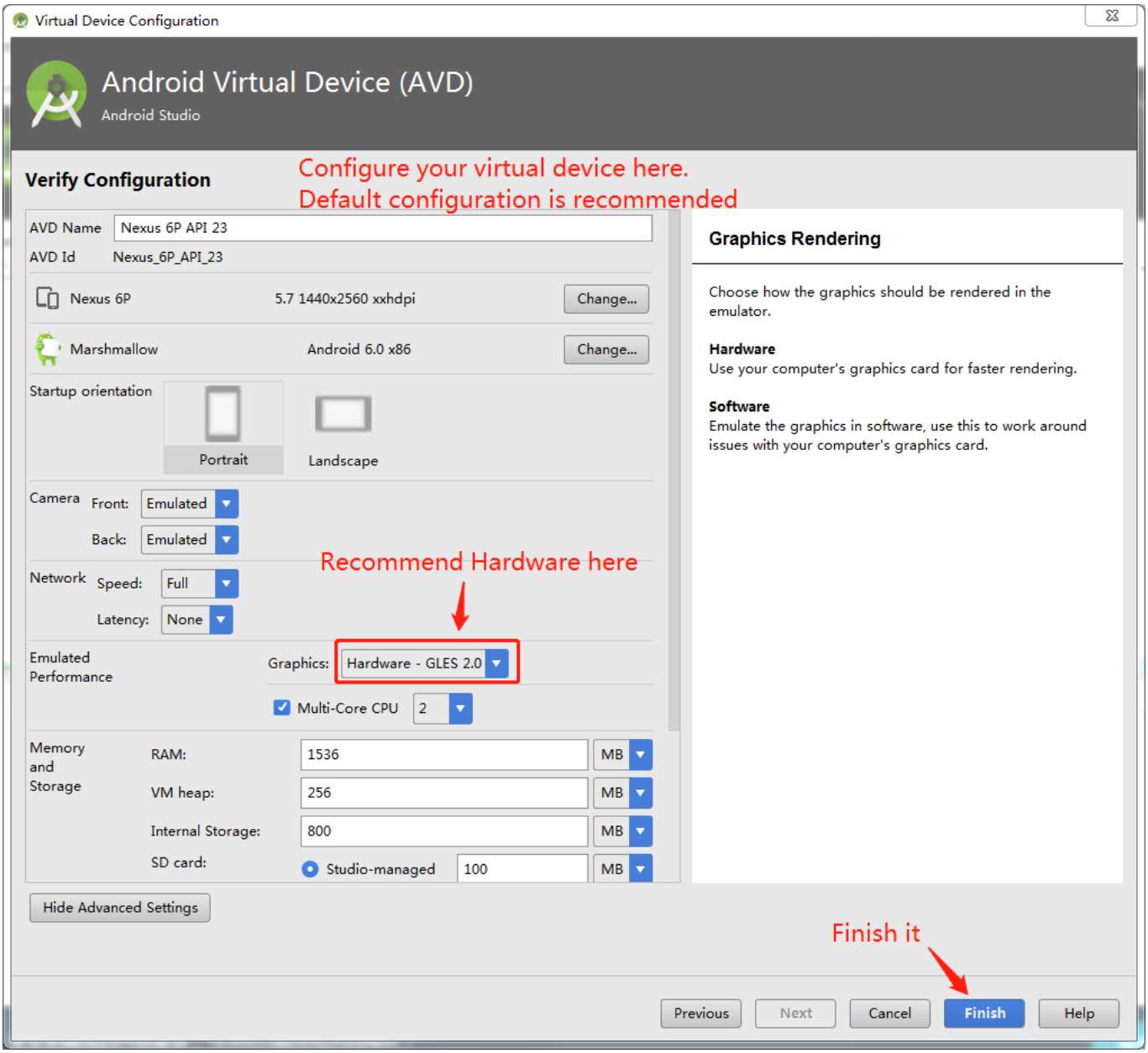
C. Configure Emulator

We recommand official Android emulators in this lab


main\java\finalexam\smali\com\finalexam\MainActivity.java - Android Studio 3.0.1
Build Run Tools VCS Window Help
First click the button to start AVD
finalexam smali com finalexam MainActivity
Android Virtual Device Manager
Your Virtual Devices
Android Studio
Type Name Play Store Resolution API Target CPU/ABI Size on Disk Actions
Nexus 5X API 23 1080 × 1920: 420dpi 23 Android 6.0 (Google A... x86 2 GB
Then click to create a new virtual devices
+ Create Virtual Device...


Virtual Device Configuration
Select Hardware
Android Studio
Choose a device definition
Category
TV
Wear
Phone
Tablet
Name Play Store Size Resolution Density
Pixel XL 5.5" 1440x2560 560dpi
Pixel 2 XL 5.99" 1440x2880 560dpi
Pixel 2 5.0" 1080x1920 420dpi
Pixel 5.0" 1080x1920 xxhdpi
Nexus S 4.0" 480x800 hdpi
Nexus One 3.7" 480x800 hdpi
Nexus 6P 5.7" 1440x2560 560dpi
Nexus 6 5.96" 1440x2560 560dpi
Nexus 6P
1440px
2560px
5.7"
Size: large
Ratio: long
Density: 560dpi
New Hardware Profile
Import Hardware Profiles
Clone Device...
We choose Nexux6P here
Previous
Next
Cancel
Finish
Help


Virtual Device Configuration
System Image
Android Studio
Select a system image
Recommended
x86 Images
Other Images
Release Name
API Level
ABI
Target
P Download
P
x86
Android API P (Google APIs)
API 27 Download
27
x86
Android API 27 (Google APIs)
Oreo Download
26
x86
Android 8.0 (Google APIs)
Nougat Download
25
x86
Android 7.1.1 (Google APIs)
Nougat Download
24
x86
Android 7.0 (Google APIs)
Marshmallow
23
x86
Android 6.0 (Google APIs)
Lollipop
22
x86
Android 5.1 (Google APIs)
If you correct install the SDK , this one should already exist.
Then just choose it, or you have to install it here.
Marshmallow
API Level
23
Android
6.0
Android Open Source Project
System Image
x86
We recommend these images because they run the fastest and support Google APIs.
Questions on API level?
See the API level distribution chart
Previous
Next
Cancel
Finish
Help



Note:

- You can try to build and run your first app on your emulator after all setting below is done by following the guide.

D. Run the Android Application

1. Drag the apk file into the Android emulator to install
2. Click the icon to open the app