

Experiment 1.1

Student Name: Khushi Bhatia

UID: 21BCS5735

Branch: BE-CSE

Section/Group: NTPP_CC_601/A

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Aim: Installation and configuration of Android Studio.

Objective: To set up a development environment for creating Android applications. The process involves installing the necessary tools and components, configuring the development environment, and preparing the IDE for efficient Android app development.

Apparatus/Requirements:

Download the Android Studio installer from the official Android Studio website (<https://developer.android.com/studio>). Choose the appropriate version for your operating system.

Procedure:

System Requirements:

The required tools to develop Android applications are open source and can be downloaded from the Web. Following is the list of software's you will need before you start your Android application programming.

Java JDK5 or later version

Java Runtime Environment (JRE) 6 Android Studio

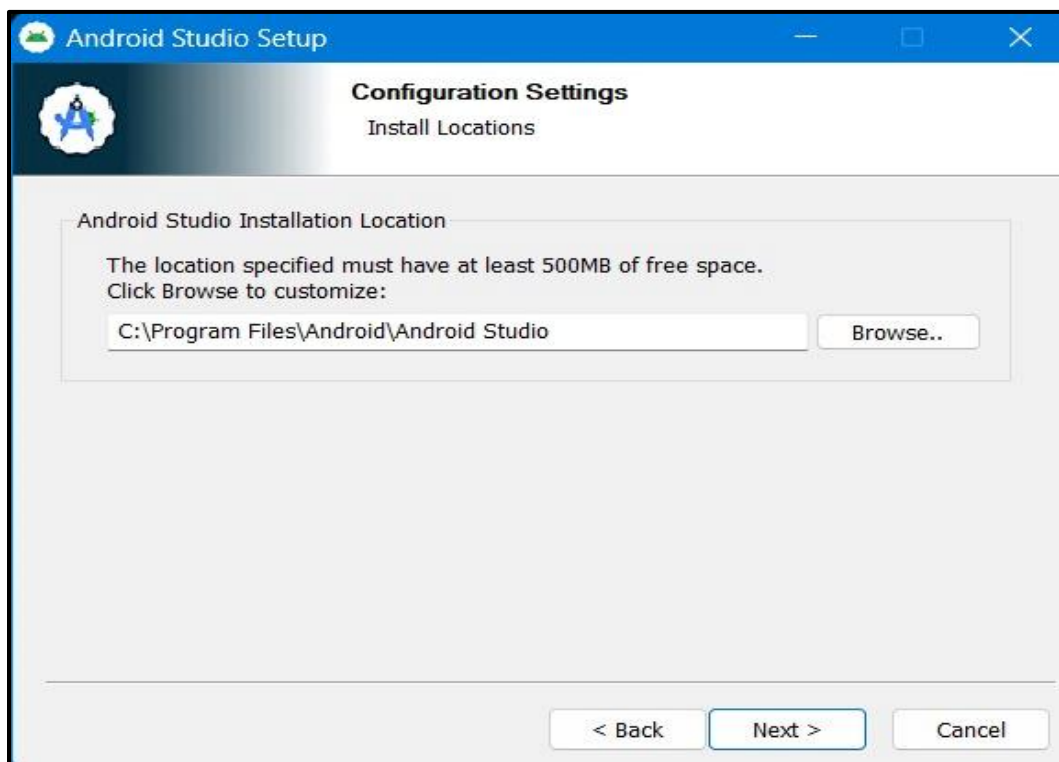
Setup Android Studio:

Android Studio is the official IDE for android application development. It works based on IntelliJ IDEA, you can download the latest version of android studio from <https://developer.android.com/studio>.

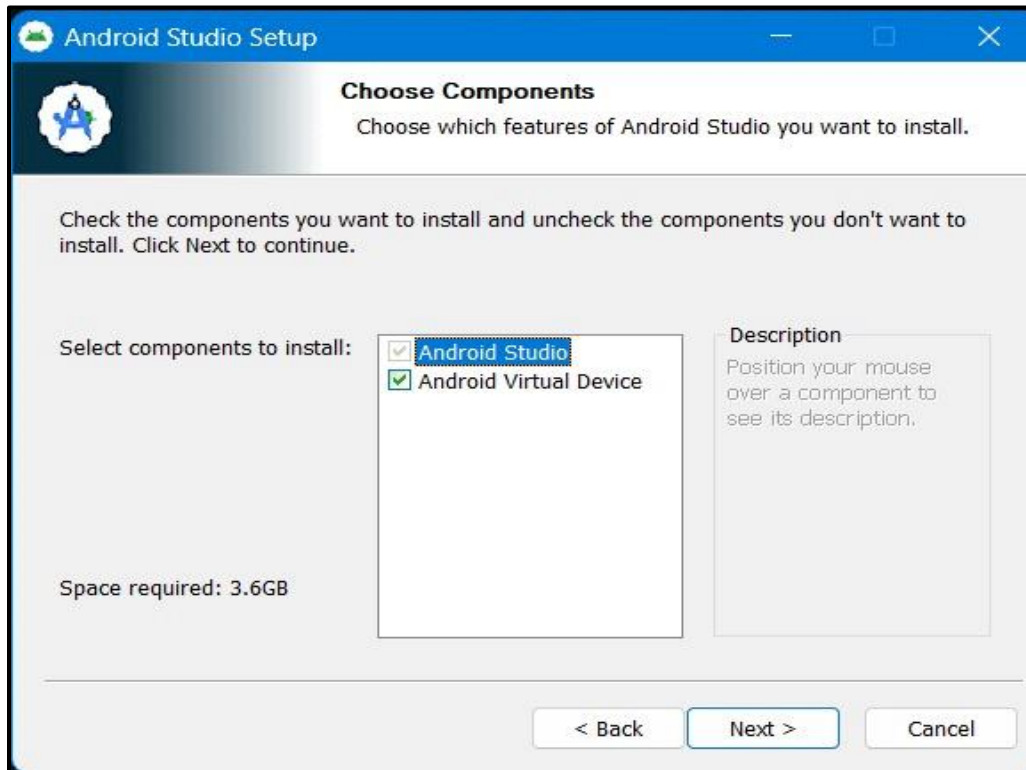
So, let's launch Android Studio.exe, Make sure before launch Android Studio, Our Machine should require installed Java JDK. To install Java JDK, take a references of Android environment setup.



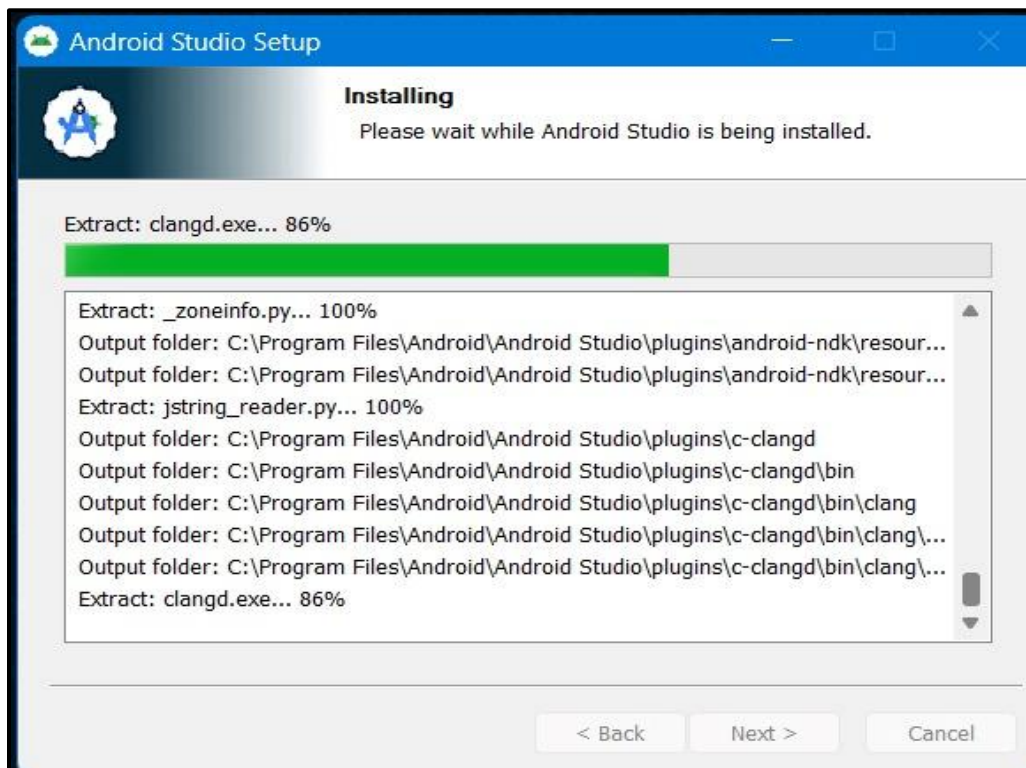
Need to specify the location of local machine path for Android studio and Android SDK, below the image has taken default location of windows 8.1 x64 bit architecture.



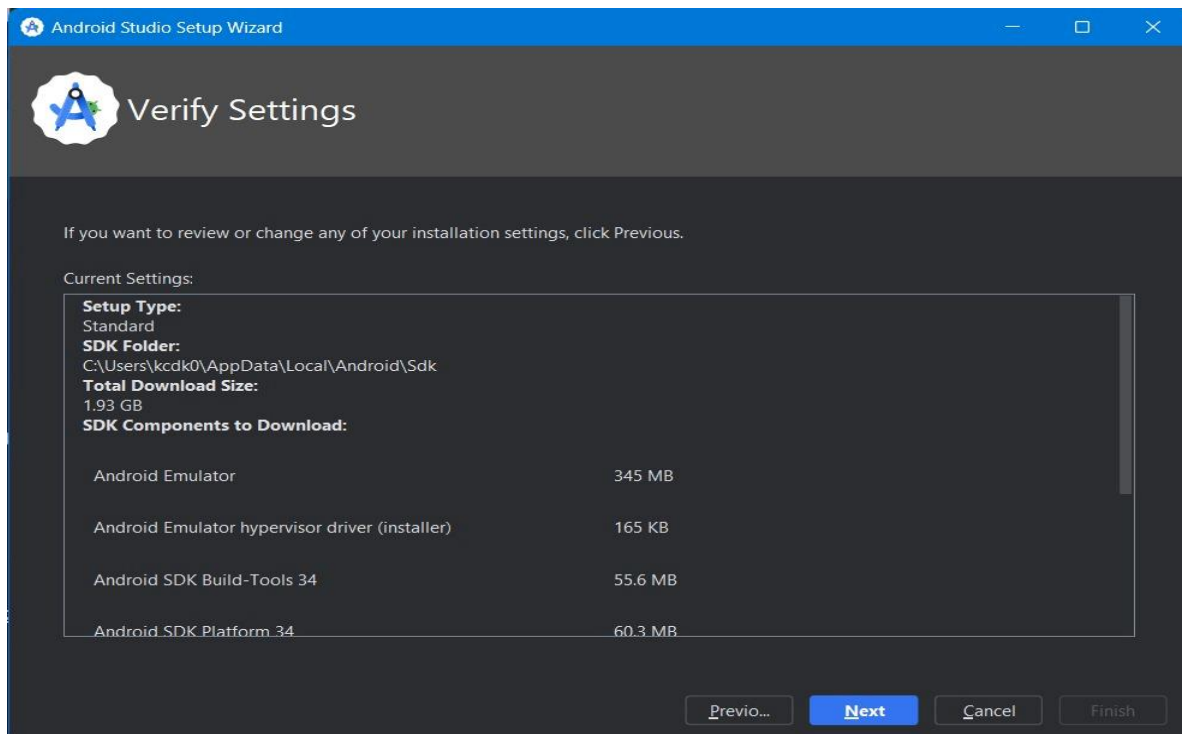
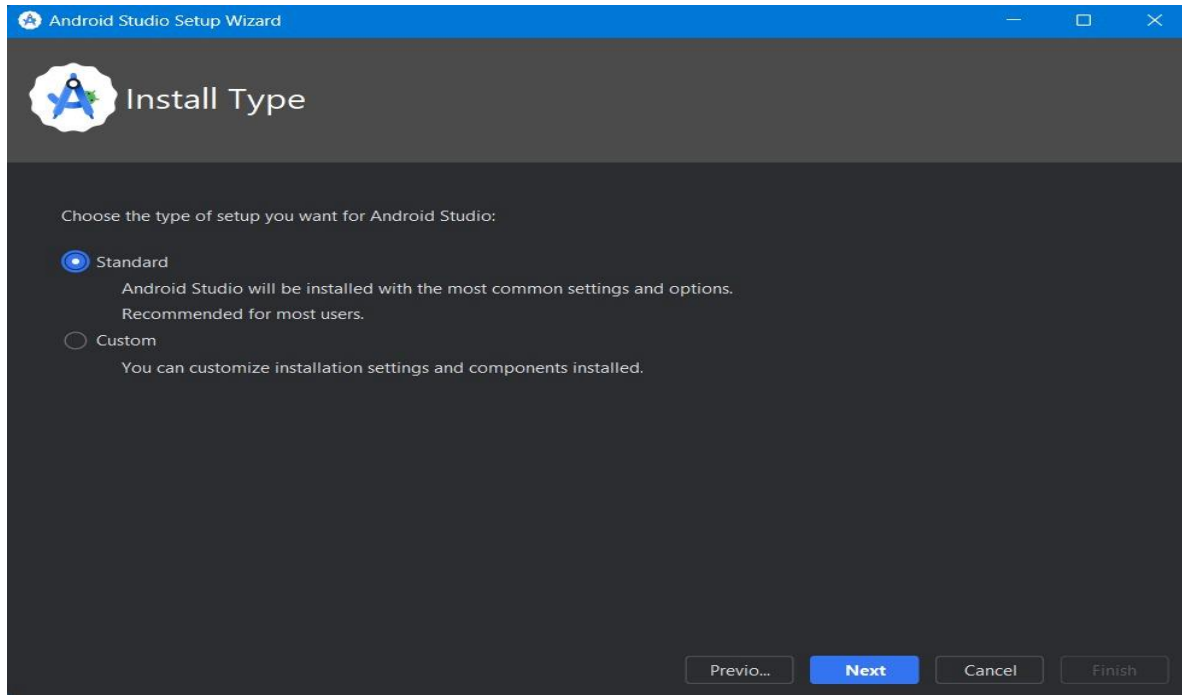
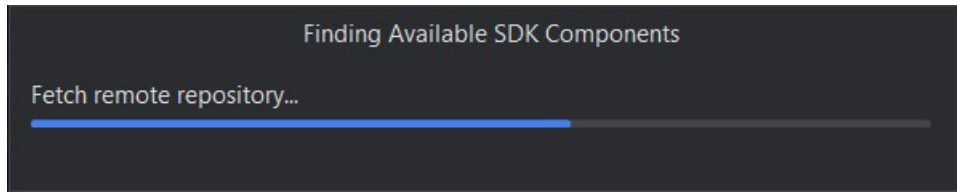
Need to check the components, which are required to create applications, below the image has selected Android Virtual Machine.

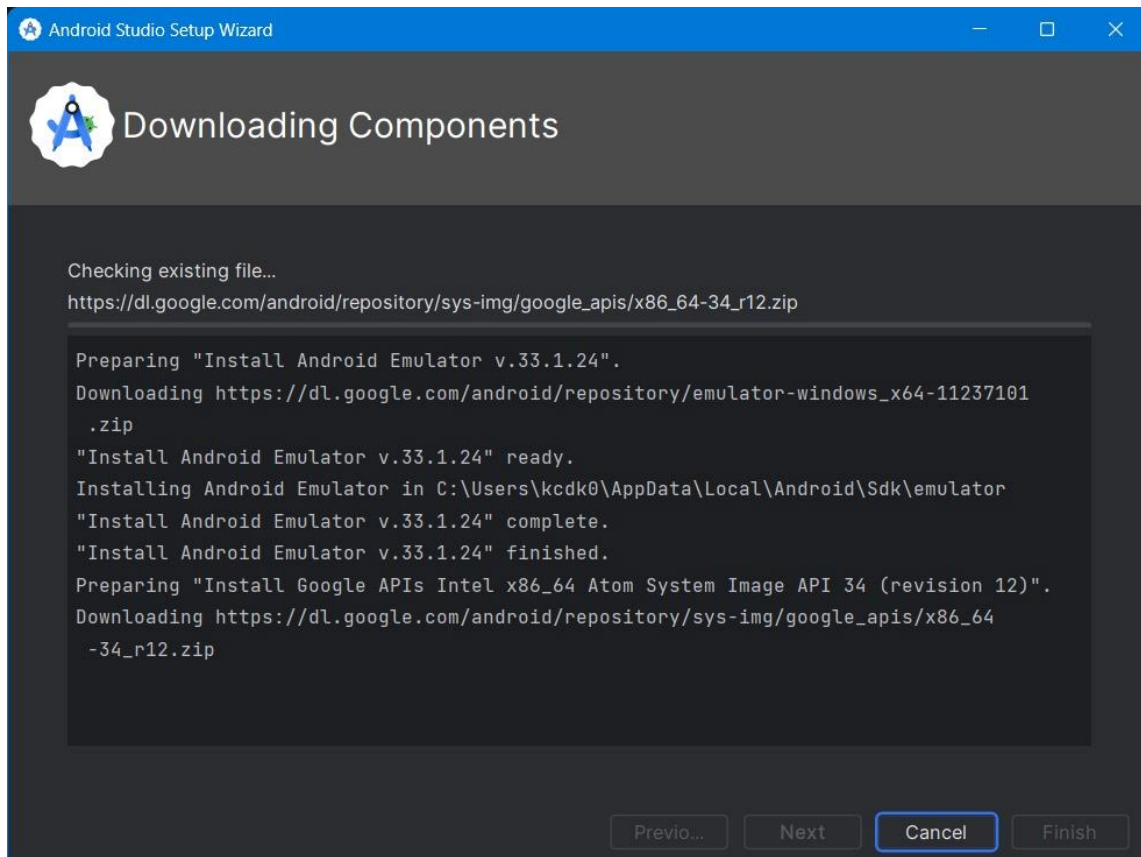
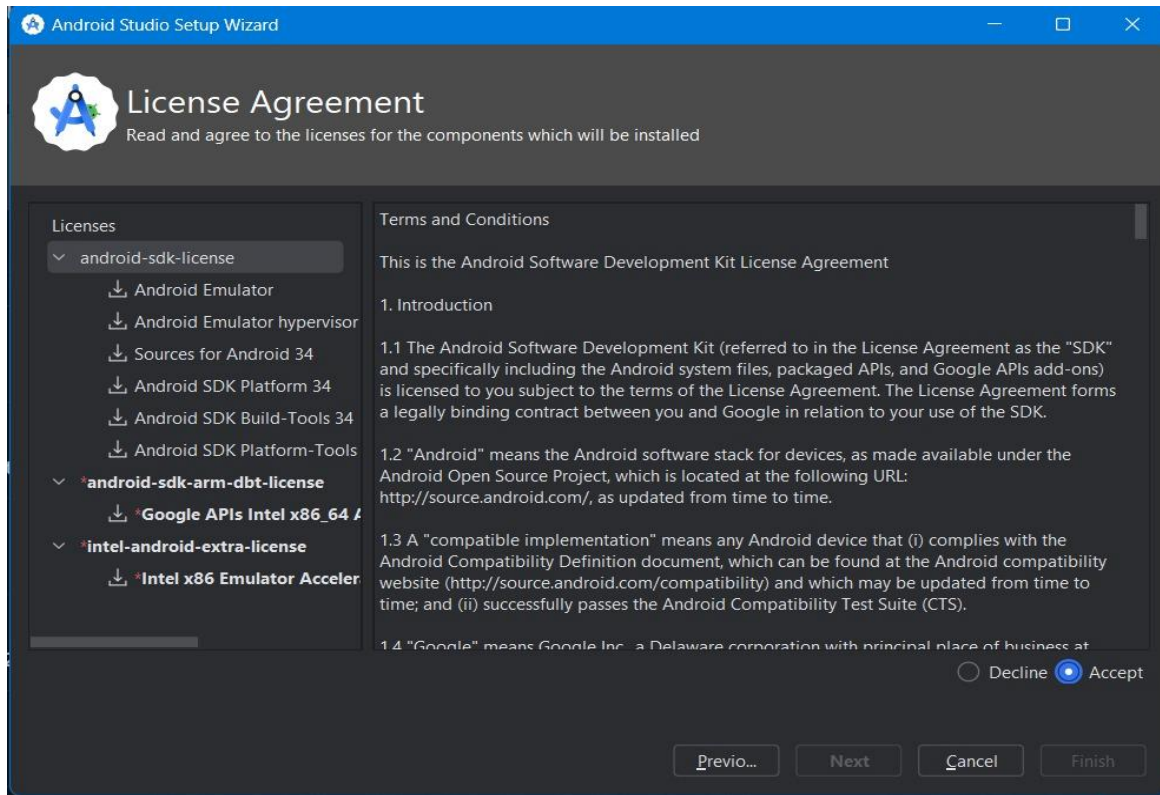


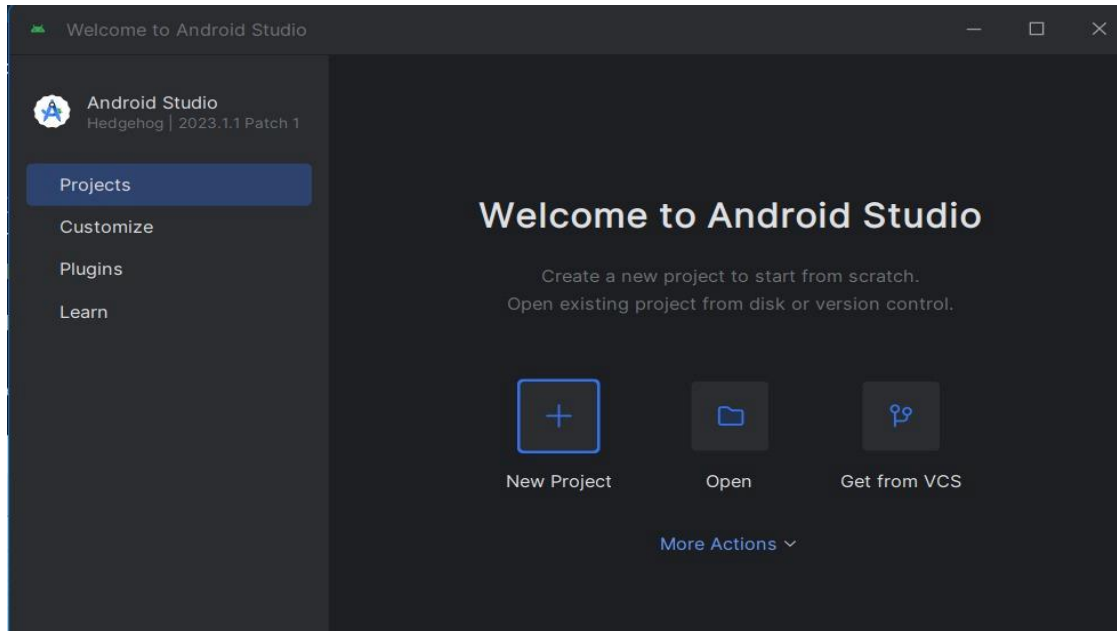
At final stage, it would extract SDK packages into our local machine, it would take a while time to finish the task.



After done all above steps perfectly, you must get finish button and it can be open android studio project with Welcome to android studio message as shown below.

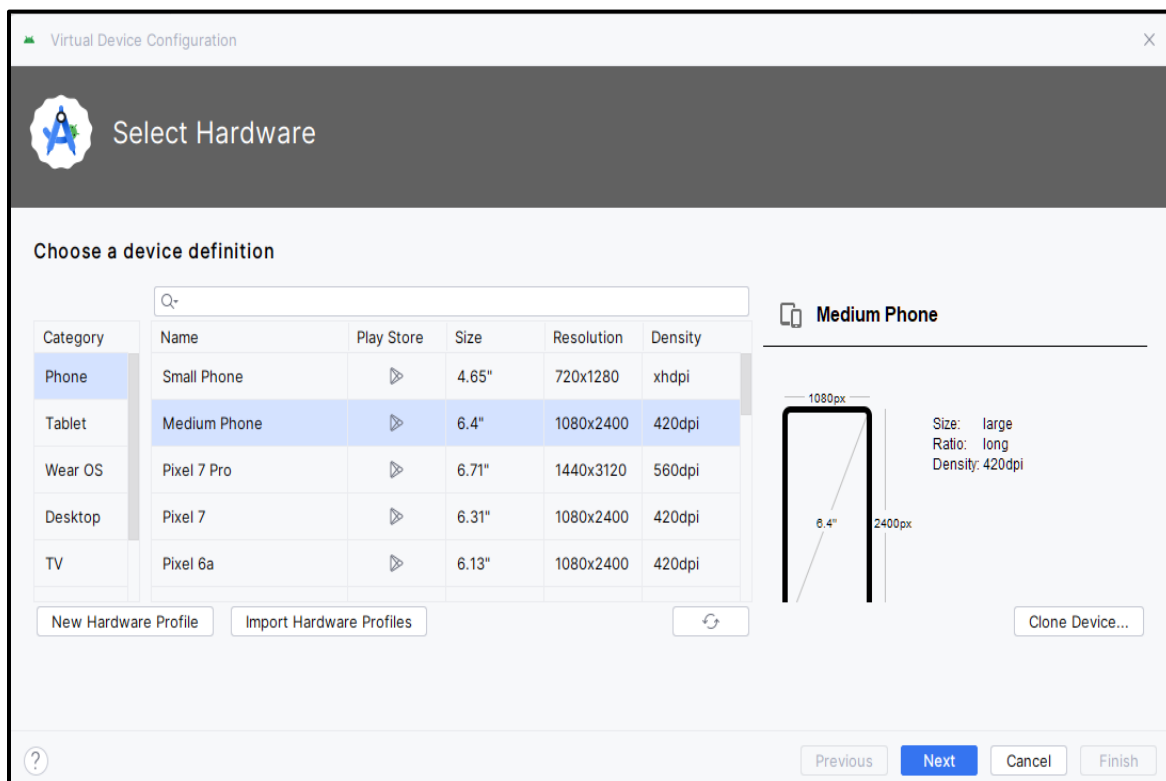






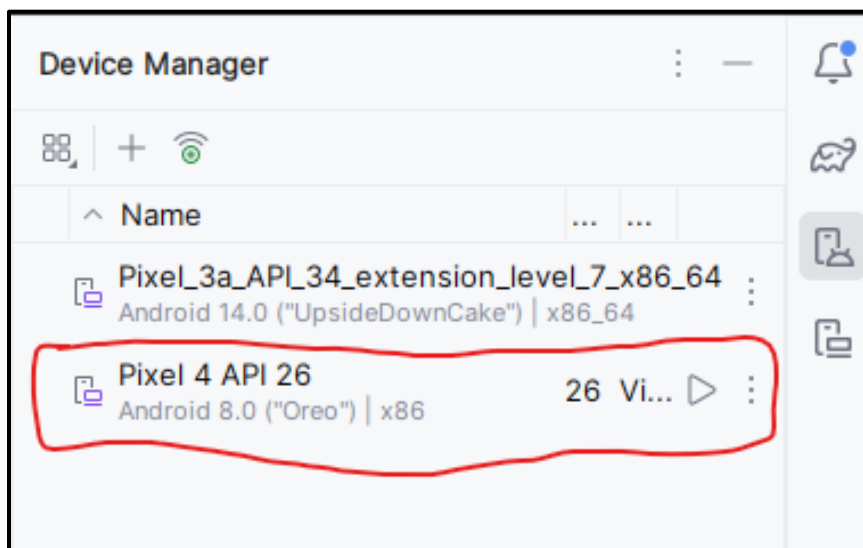
Create Android Virtual Device:

To test your Android applications, you will need a virtual Android device. So, before we start writing our code, let us create an Android virtual device. Launch Android AVD Manager Clicking AVD_Manager icon as shown below:



If your AVD is created successfully it means your environment is ready for Android application development. If you like, you can close this window using top-right cross button. Better you re-start your machine and once you are done with this last step, you are ready to proceed for your first Android example but before that we will see few more important concepts related to Android Application Development

After Click on a virtual device icon, it going to be shown by default virtual devices which are present on your SDK, or else need to create a virtual device by clicking Create new Virtual device button.



Learning Outcomes:

- Learned about Android studio.
- Learned about installing Android studio.