



DOP: / /2023

DOS: / /2023

Experiment No: 01

Title: To install and configure Android Studio / Genymotion and Implement simple Android apk.

Theory:

- **What is Android:**

Android is a software package and linux based operating system for mobile devices such as tablet computers and smartphones. It is developed by Google and later the OHA (Open Handset Alliance). Java language is mainly used to write the android code even though other languages can be used.

The goal of android project is to create a successful real-world product that improves the mobile experience for end users. There are many code names of android such as Lollipop, KitKat, Jelly Bean, Ice cream Sandwich, Froyo, Eclair, Donut etc .

Features of Android:

The important features of android are given below:

- 1) It is open-source.
- 2) Anyone can customize the Android Platform.
- 3) There are a lot of mobile applications that can be chosen by the consumer.
- 4) It provides many interesting features like weather details, opening screen, live RSS (Really Simple Syndication) feeds etc.

How to Install Android Studio?

Step 1 - System Requirements

You will be delighted, to know that you can start your Android application development on either of the following operating systems–

- Microsoft® Windows® (32 or 64-bit).
- Mac® OS X® 10.8.5 or higher, up to 10.9 (Mavericks)
- GNOME or KDE desktop

Second point is that all 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

Step 2 - Setup Android Studio:

Android Studio

Android Studio is the official integrated development environment for Google's Android operating system, built on JetBrains' IntelliJ IDEA software and designed specifically for Android development. It is available for download on Windows, macOS and Linux based operating systems.

Installation

Step 1: Head over to <https://developer.android.com/studio#downloads> link to get the Android Studio executable or zip file.

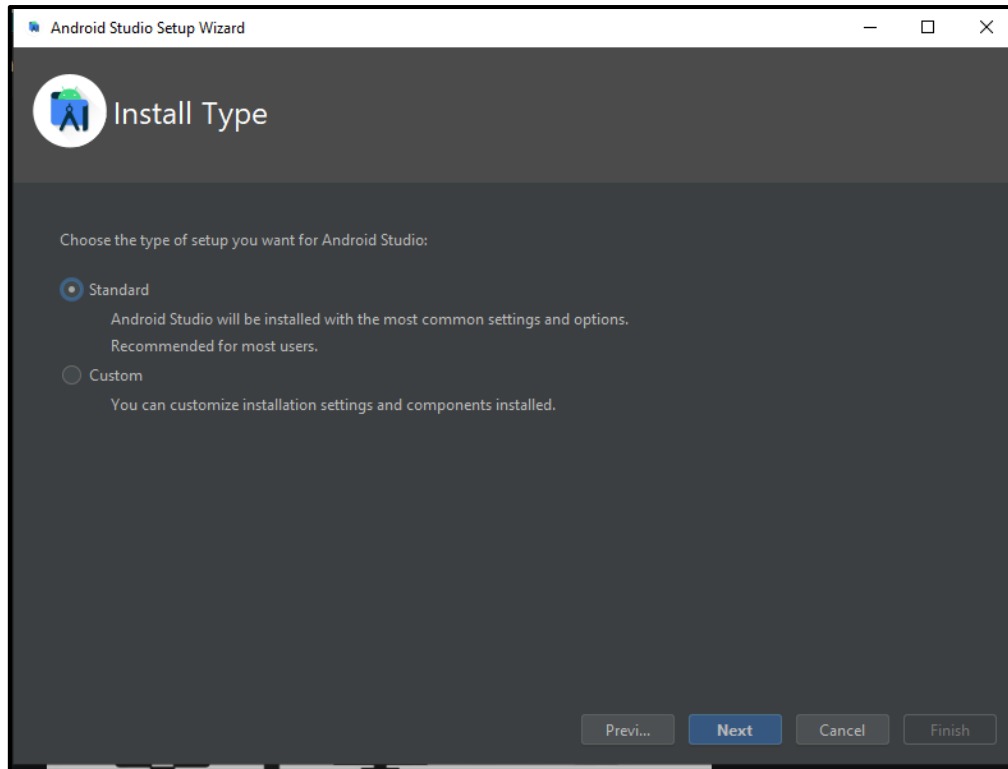
Step 2: Click on the Download Android Studio Button.



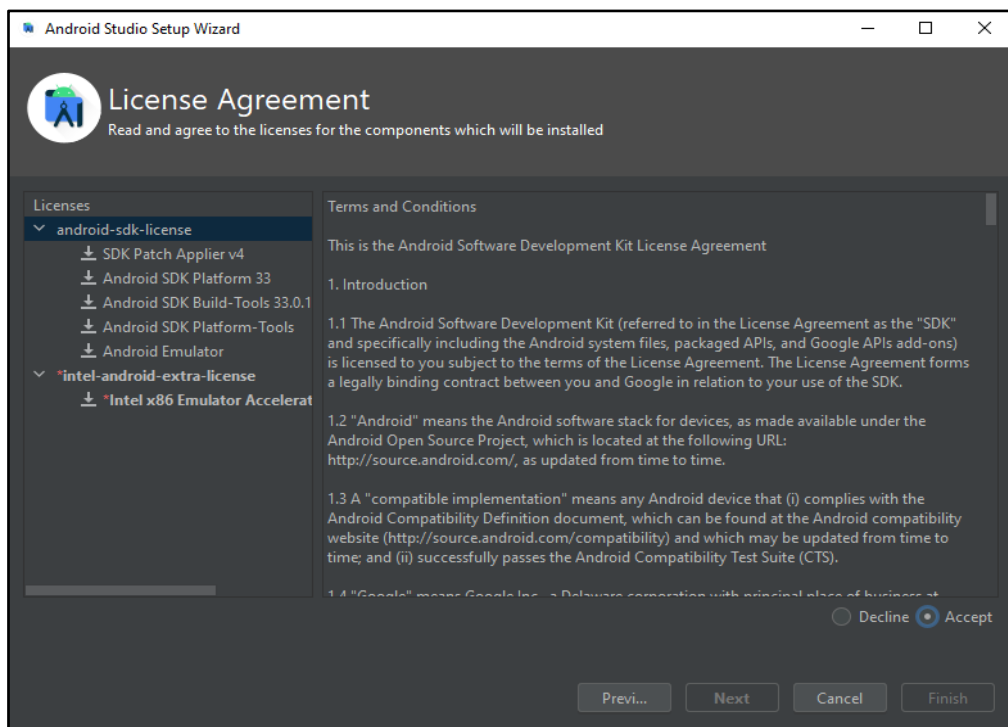
Step 3: After the downloading has finished, open the file from downloads and run it.

Step 4: Once "Finish" is clicked, it will ask whether the previous settings need to be imported [if the android studio had been installed earlier], or not. It is better to choose the 'Don't import Settings' option.

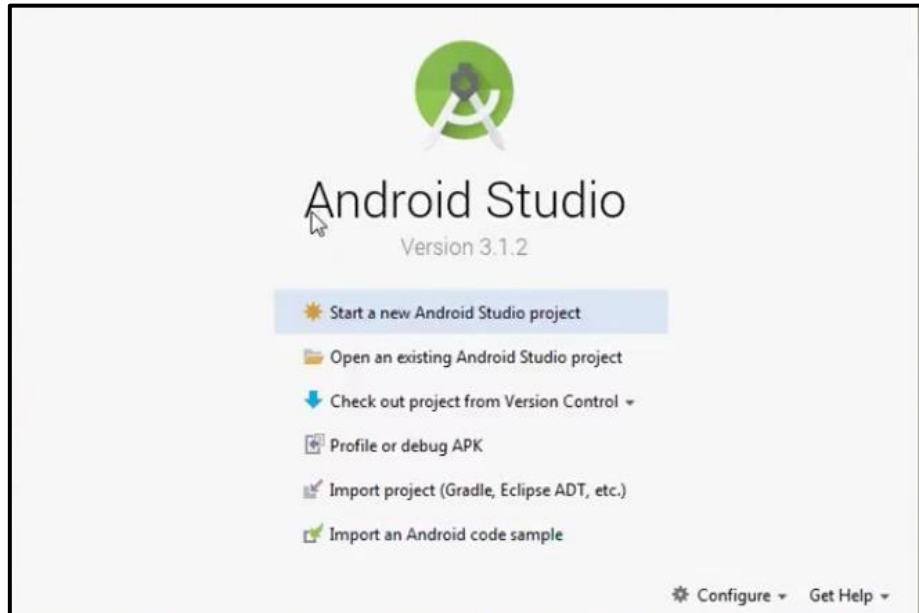
Step 5: After it has found the SDK components, it will redirect to the Welcome dialog box.



Step 6: Now it is time to download the SDK components.



Step 7: Click on Start a new Android Studio project to build a new app.



Conclusion: -

Thus, we to install and configure Android Studio / Genymotion and Implement simple Android apk.