



Experiment – 1.1

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1. **Aim of the practical:** Installation and configuration of Android Studio.(CO1)
2. **Objective:-** The objective of installing and configuring Android Studio is 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.
3. **Input/Apparatus Used:**

Input:

Computer: Android Studio is compatible with Windows, macOS, and Linux. Ensure that your computer meets the minimum system requirements for the chosen operating system.

Internet Connection: A reliable internet connection is required to download Android Studio and the necessary SDK components during the installation process.

Apparatus:

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

Computer Mouse, Keyboard and Monitor/Display: Use a mouse and keyboard to interact with the installation process, configure settings, and navigate through Android Studio. Android Studio requires a monitor or

display to visualize the installation process and subsequently to develop and test Android applications.

Storage Space: Ensure sufficient free storage space on your computer to accommodate the Android Studio installation and any additional SDK components you may download.

4. Procedure:

Step 1 - 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.

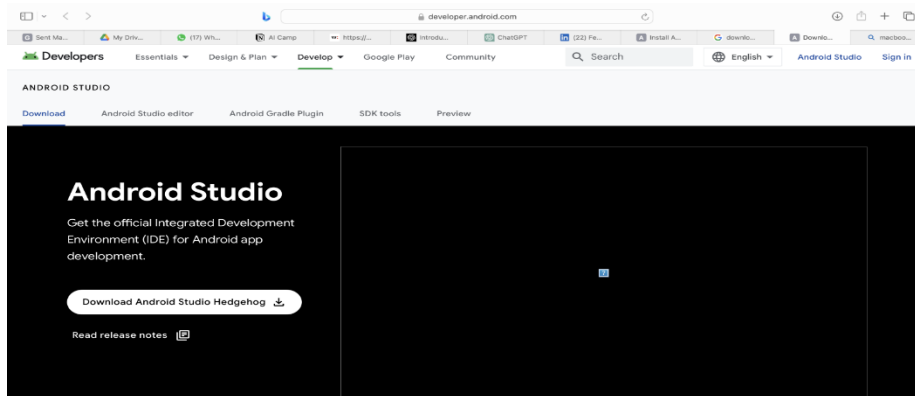
Java JDK5 or later version

Step 2 - 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 [Android Studio 2.2 Download](#), If you are new to installing Android Studio on windows, you will find a file, which is named as android-studio-bundle-143.3101438-windows.exe. So just download and run on windows machine according to android studio wizard guideline.

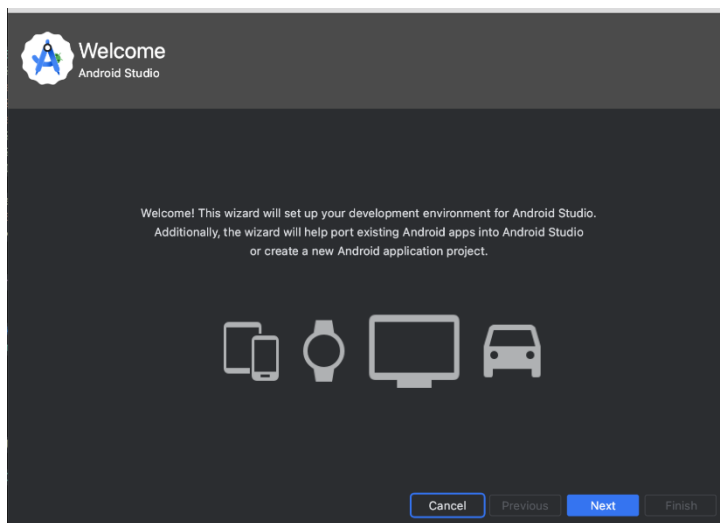
If you are installing Android Studio on Mac or Linux, You can download the latest version from [Android Studio Mac Download](#), or [Android Studio Linux Download](#), check the instructions provided along with the

downloaded file for Mac OS and Linux.

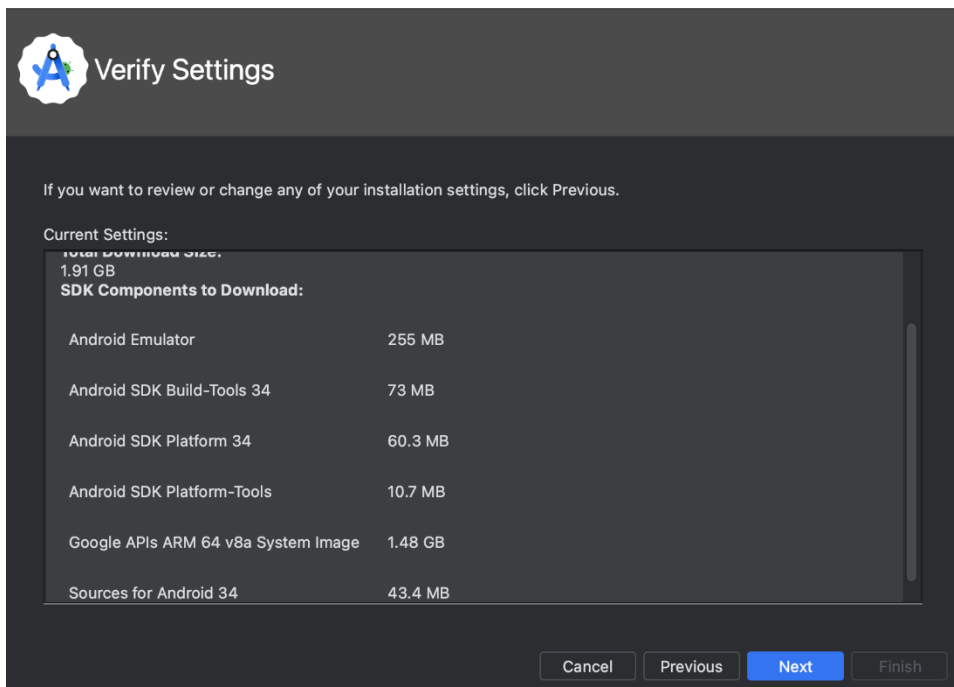
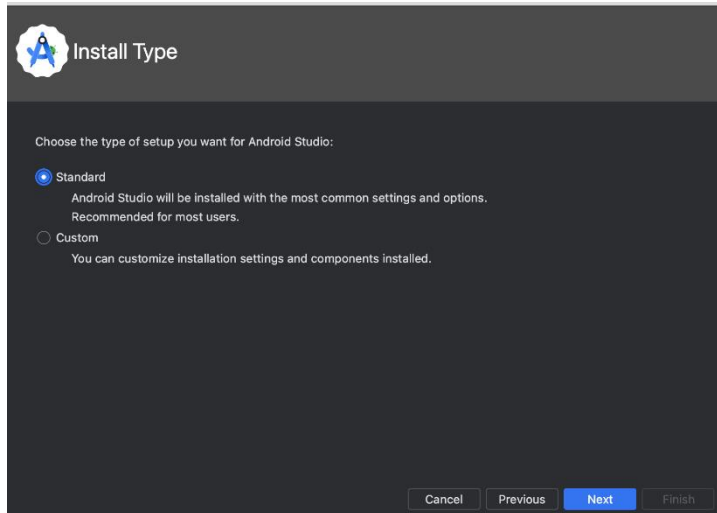


New features

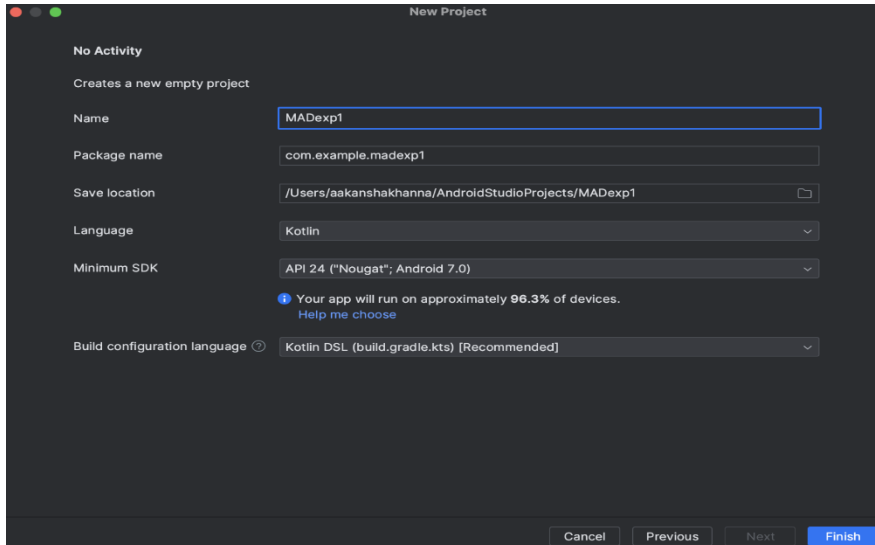
- **Step 3:** It would extract SDK packages into our local machine, it would take a while time to finish the task and would take 2626MB of Hard disk space.



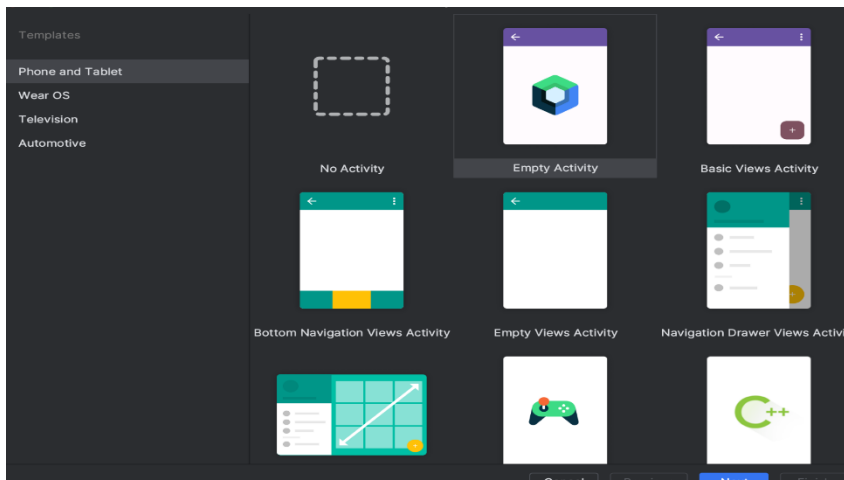
- **Step 4:** After done all above steps perfectly, you must get finish button and it can be open android studio project with Welcome to android studio message as shown below.



- **Step 5:** You can start your application development by calling start a new android studio project. in a new installation frame should ask Application name, package information and location of the project.

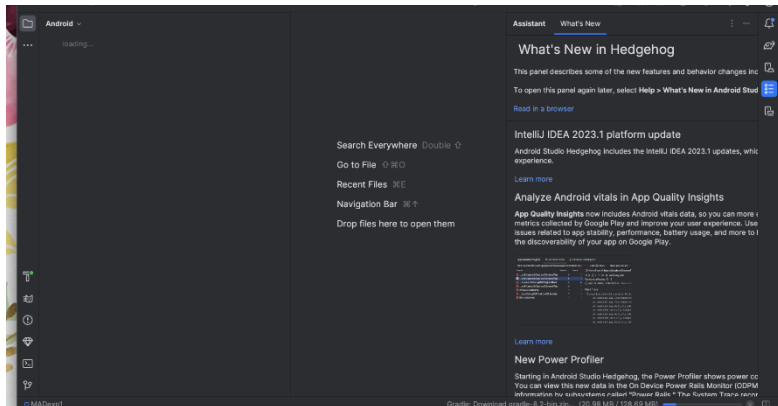


- **Step 6:** The next level of installation should contain selecting the activity to mobile, it specifies the default layout for Applications

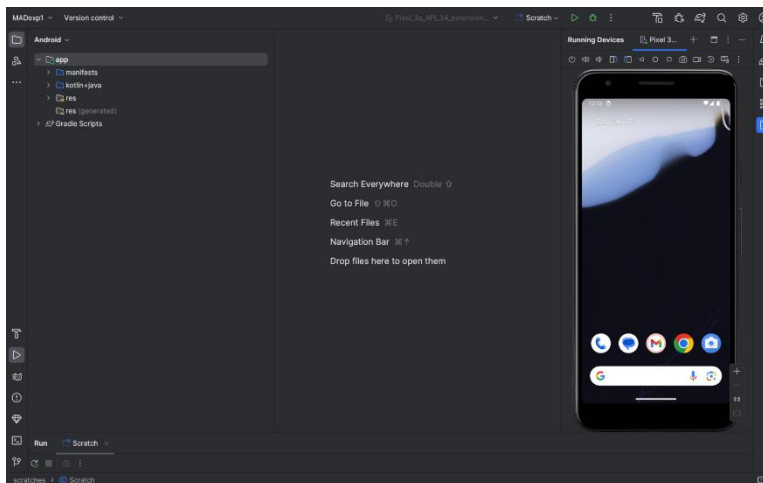


- **Step 7:** At the final stage it going to be open development tool to write the application code. If your AVD is created successfully it means your environment is ready for Android application development. If you like, you

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



5. **Result:** Android Studio is successfully installed.



6. **Learning Outcomes:**

- Successful setup of your Android development environment.
- Project Workspace.
- Configuration Wizard Completion.
- SDK Components Downloaded.
- Android Studio IDE Launch.
- Error-Free Launch.



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