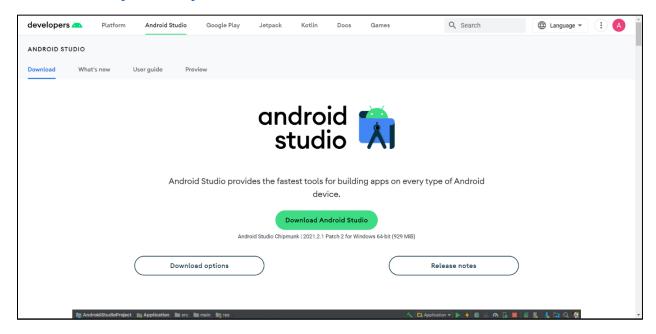
Practical 1

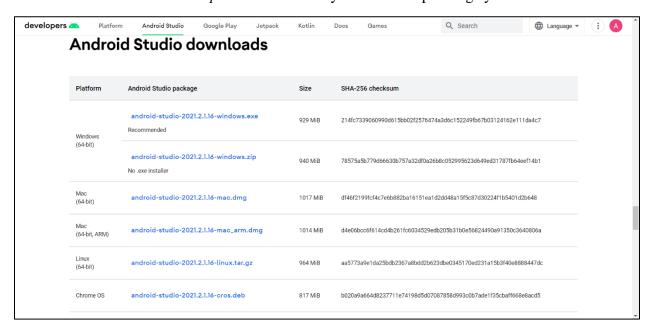
Aim: Install Android Studio Create a virtual device, Create and Run Hello World on emulator and device, explore project layout, Generate and view log statements, Explore manifest file.

Steps:

1. Go to https://developer.android.com/studio



2. Click on "Download Options" and select your desired operating system.



For Linux:

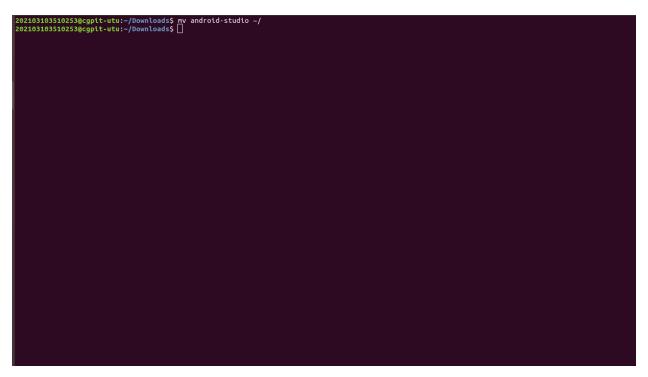
1. Go to your downloads folder (Usually located in /home/username/Downloads).

```
Jo23103103510253@cgpit=utu:-/Downloads5 ls
androids-sudve-2022.2.3.6.tlnux.ter.gr
202103103510253@cgpit=utu:-/Downloads5 []
```

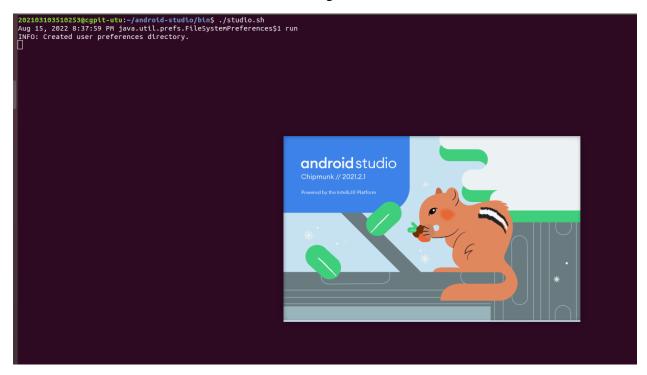
2. Open a terminal and untar the file by tar xvf android-studio-2021.2.1.16-linux.tar.gz

```
android-studio/plugins/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/restant/tb/pates/
```

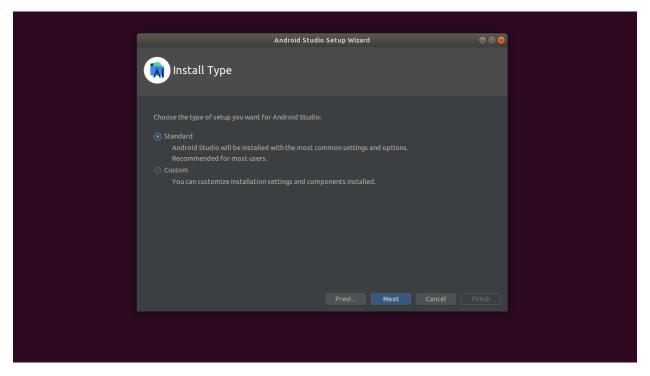
3. You will get a folder named *android-studio*, copy it to your home folder using *cp - rav android-studio* ~/



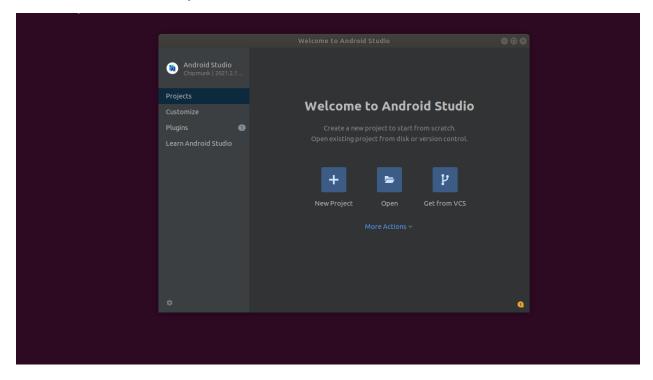
4. Start android studio for first time using ~/android-studio/bin/studio.sh



5. Follow on-screen steps according to your needs.

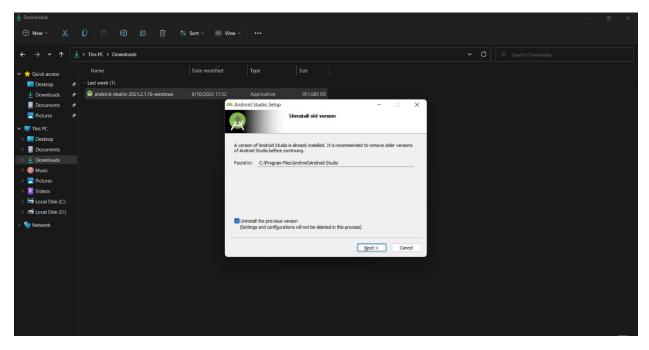


6. You have finally installed Android Studio.



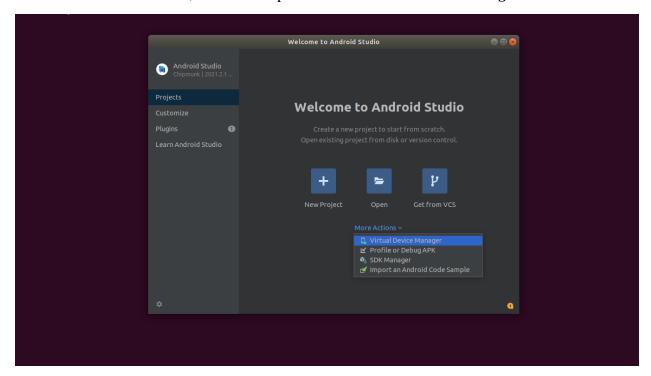
For Windows:

- 1. Go to your downloads folder.
- 2. Run android-studio-2021.2.1.16-windows.exe
- 3. Follow on-screen steps according to your needs.

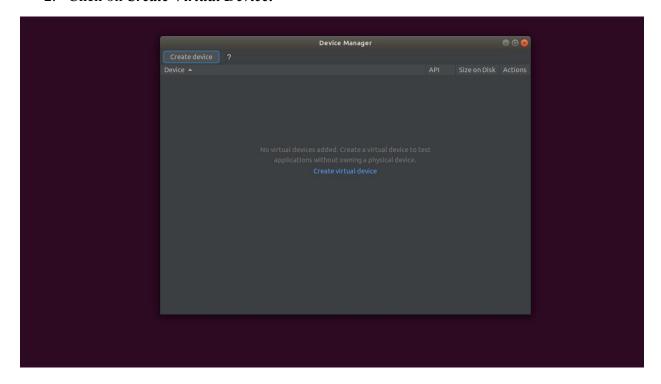


Setting up the AVD:

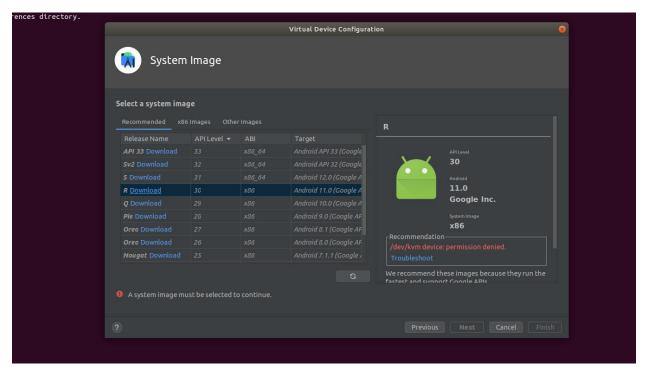
1. Start android studio, from more options select Virtual Device Manager.



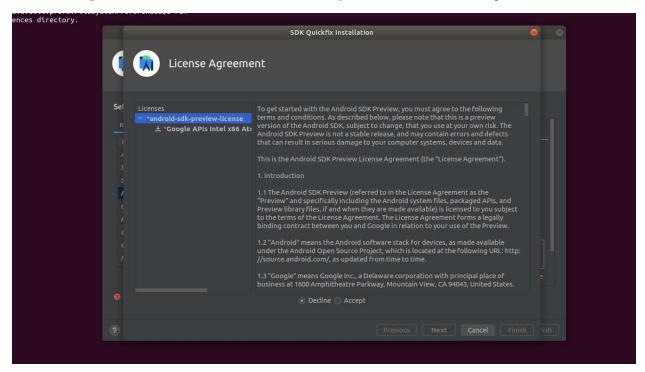
2. Click on Create Virtual Device.

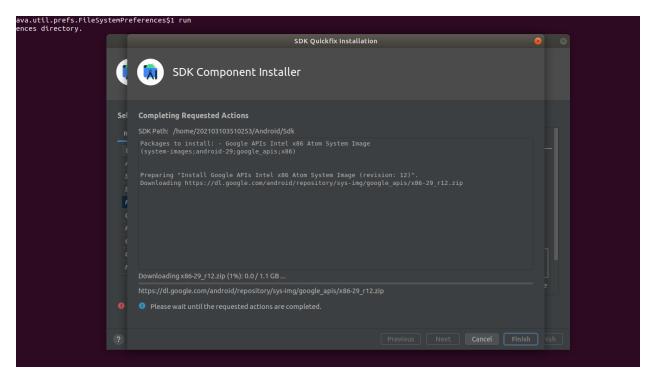


3. Select your desired *device model* and *Android version*.

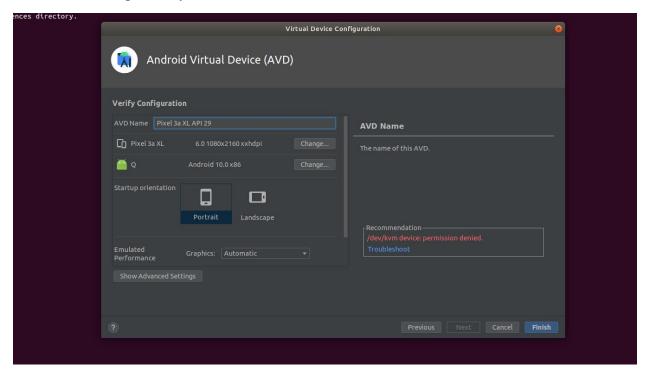


4. Accept License and continue, Android Image will start downloading.

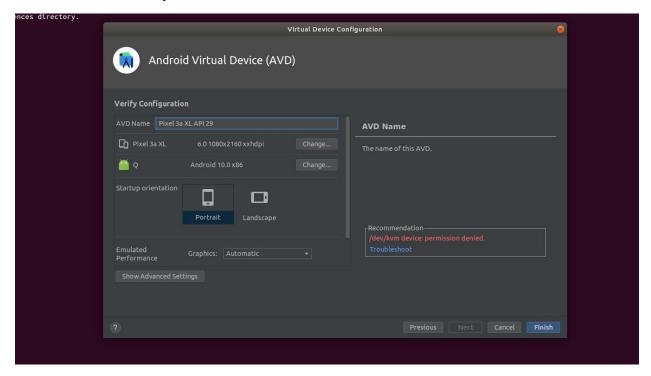




5. After completion, you will see a confirmation screen.

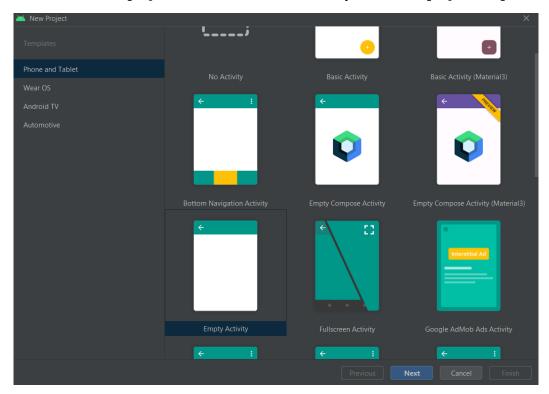


6. You have finally created a Virtual Device.

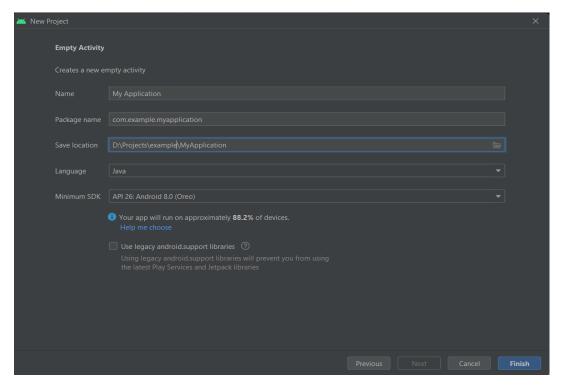


Creating a new project:

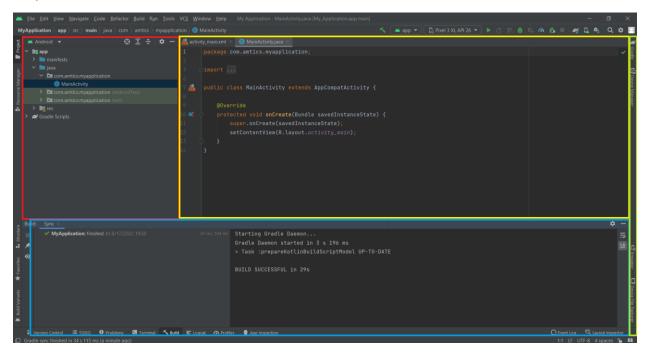
1. Select *create new project* from the menu and select your *desired project template*.



2. Select project name, path, package name, minimum supported android version and project language (computer language).



Layout of Android Studio:



File Manager (Red Section): contains project files like layouts, activities, manifests, etc.

Work Area (Yellow Section): where we actually work, like designing layouts, writing logics, defining elements, etc.

Logging Area (Blue Section): where android studio generate logs about build, connectivity, application logs.

Explore/Inspect Area (Green Section): where we can access file manager of connected android device (whether it is virtual device or real device), inspecting the layout like how your application will look like, etc.