Experiment No: 1 Installation and Configuration of Flutter Environment.

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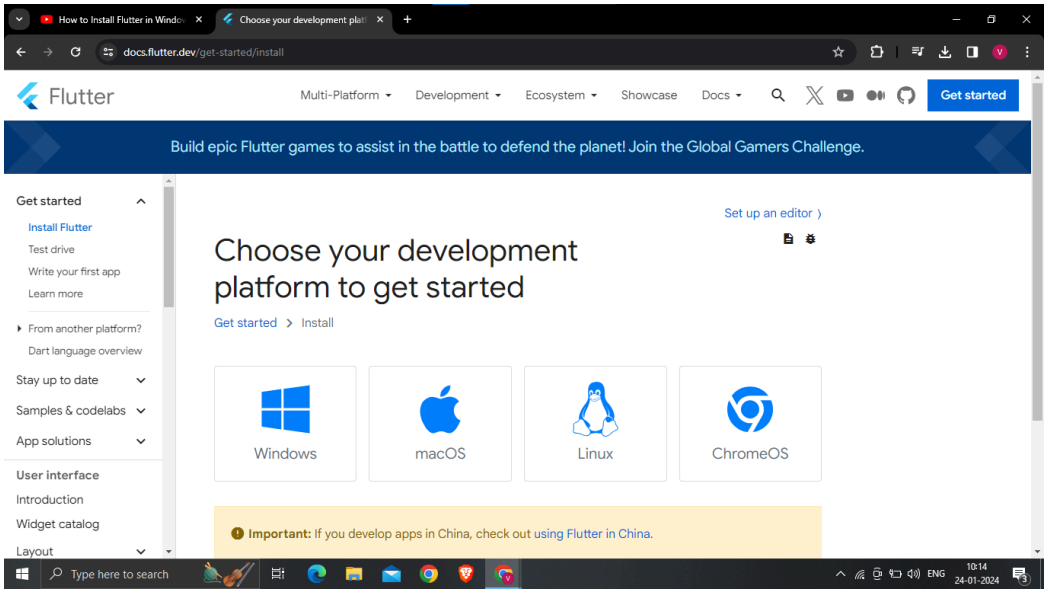
AIM:- To install and setup Flutter and Android Studio on our system

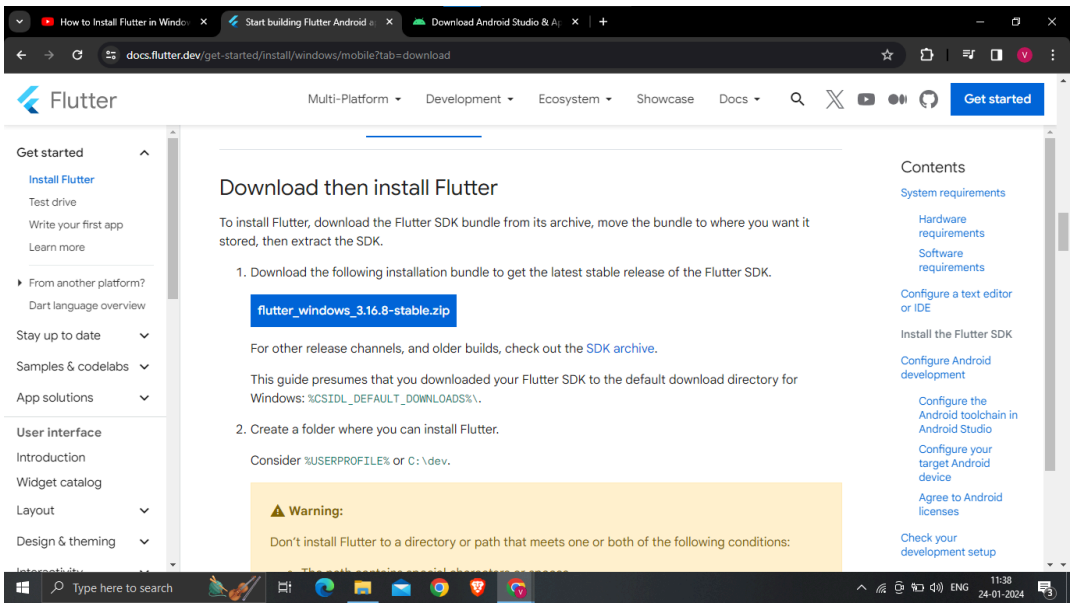
THEORY:-

Step 1:- Go to flutter website :- https://docs.flutter.dev/get-started/install

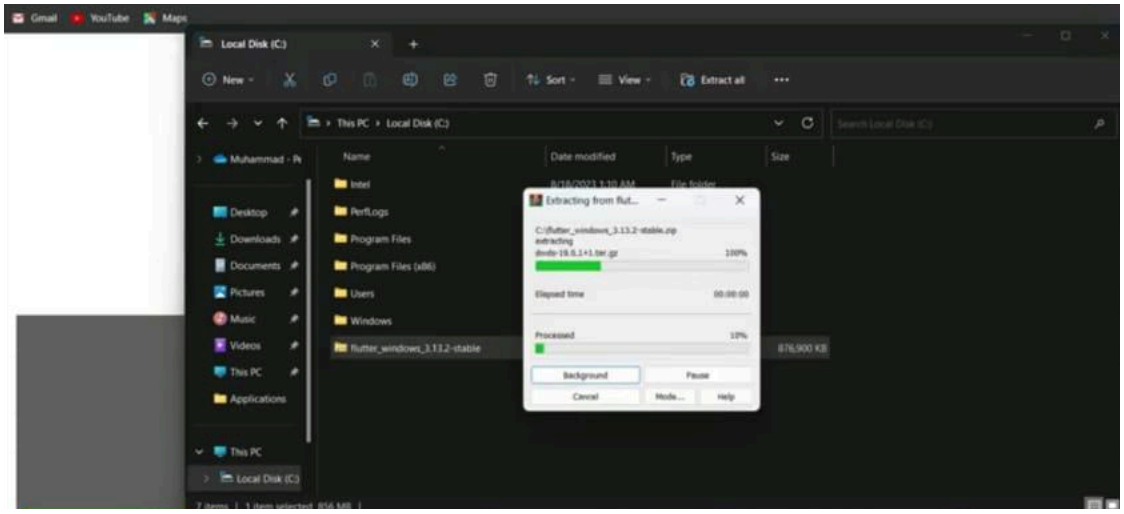


Next, to download the latest Flutter SDK, click on the Windows icon. Here, you will find the download link for SDK.

Step 2:- Download Flutter

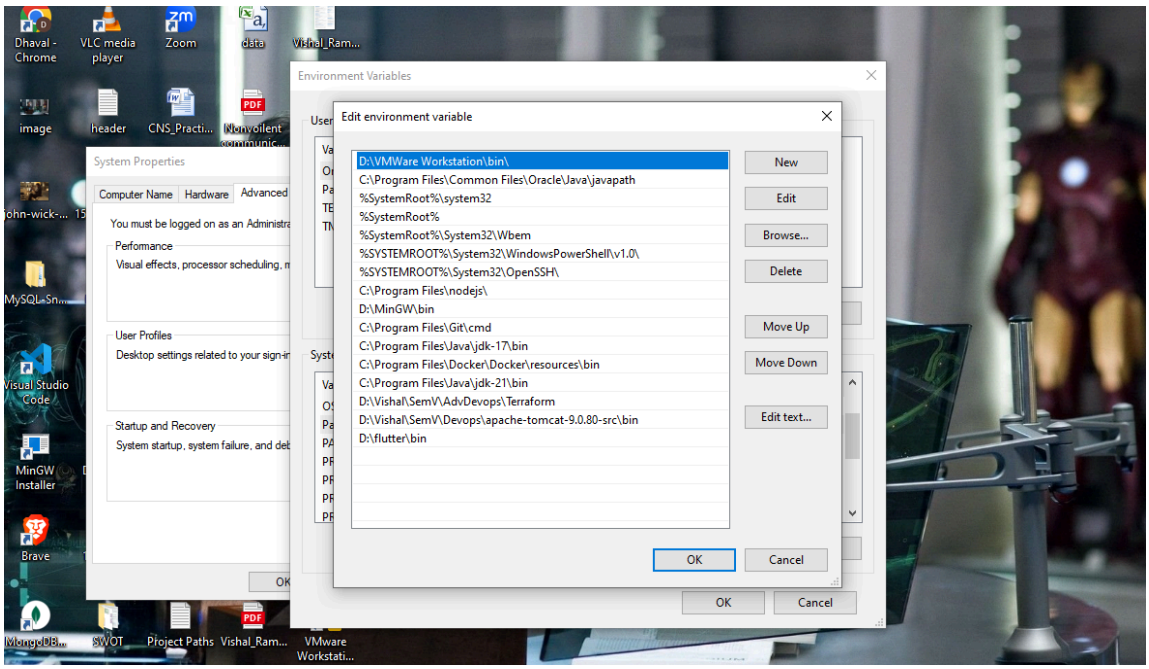


Step 3:- Extract Zip file in your desired location
When your download is complete, extract the zip file and place it in the desired installation folder or location, for example, C: /Flutter.

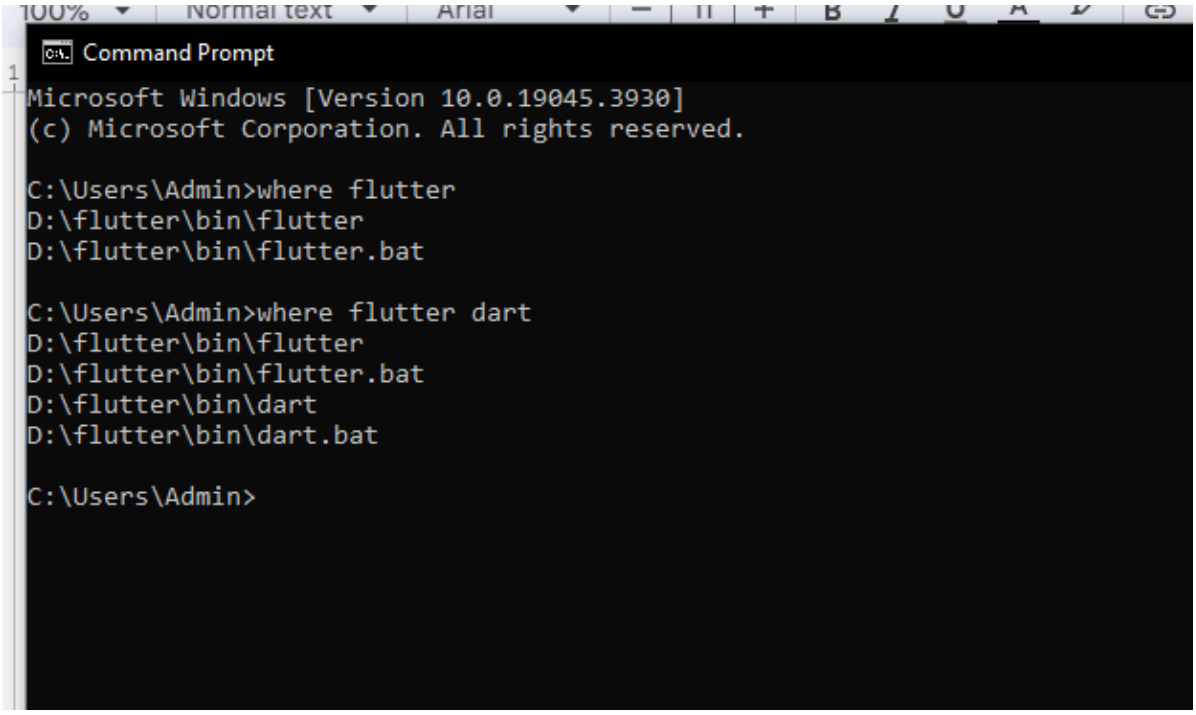


Step 4:- To run the Flutter command in regular windows console, you need to update the system path to include the flutter bin directory. The following steps are required to do this:
Set the environment variable of **flutter/bin**

a. Go to MyComputer properties -> advanced tab -> environment variables. You will get he following screen.

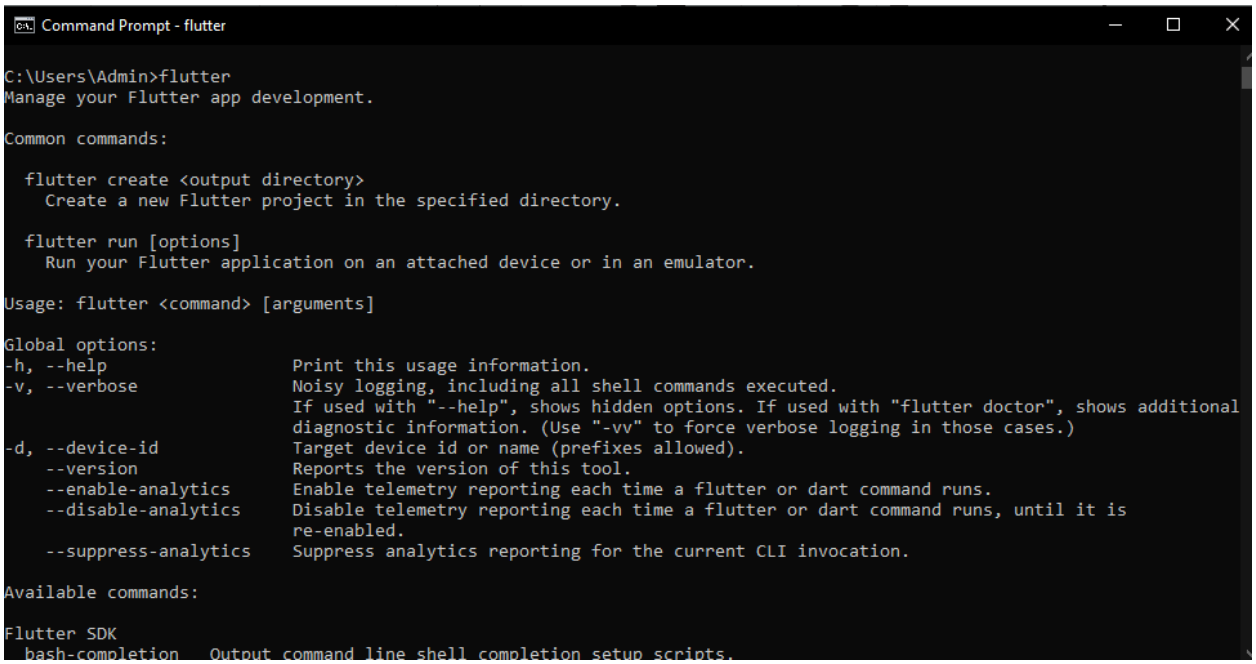


Step 5:- Check weather Flutter properly Installed on system using Command Prompt



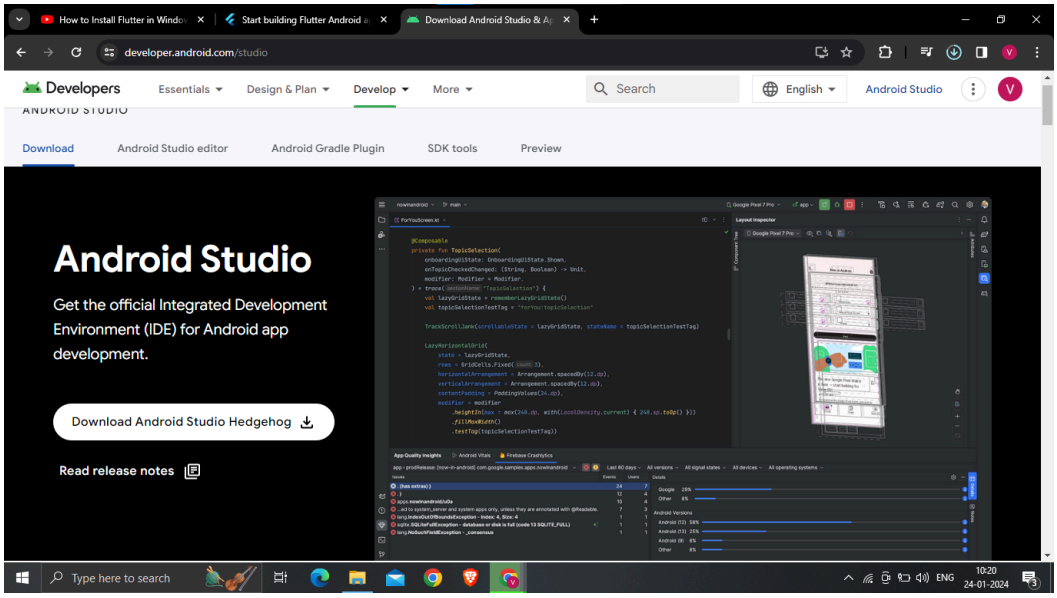
Step 6:- Now, run the $ flutter command in command prompt.

Now, run the $ flutter doctor command. This command checks for all the requirements of Flutter app development and displays a report of the status of your Flutter installation.

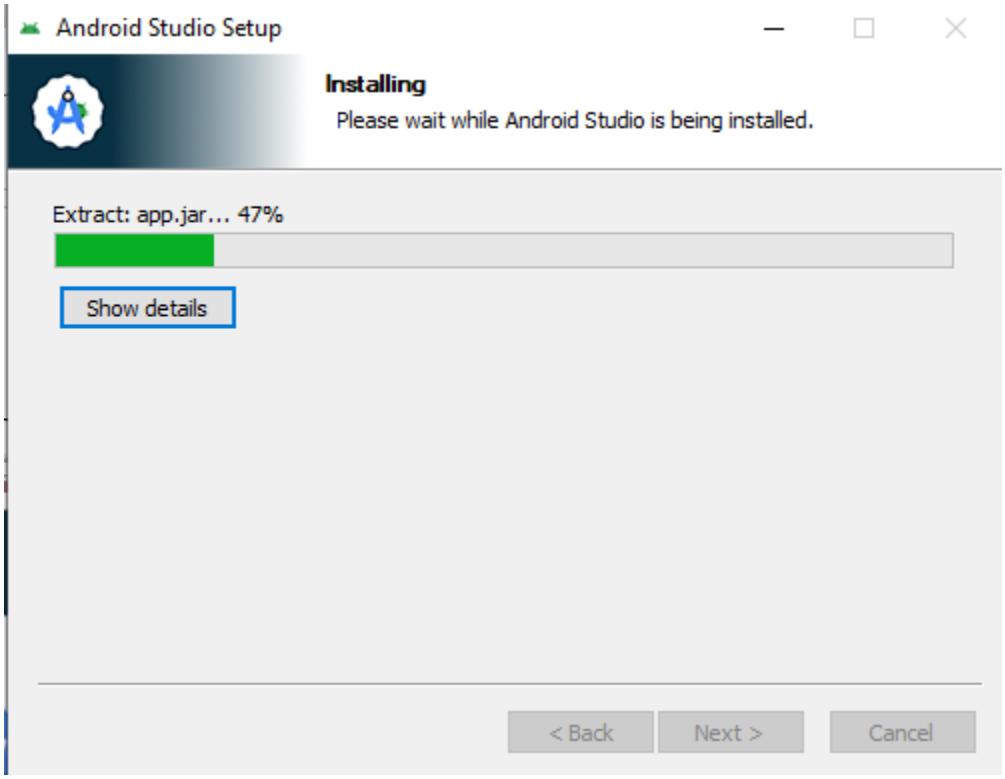


Step 7:- Goto https://developer.android.com/studio/install

Download for windows from :- https://developer.android.com/studio

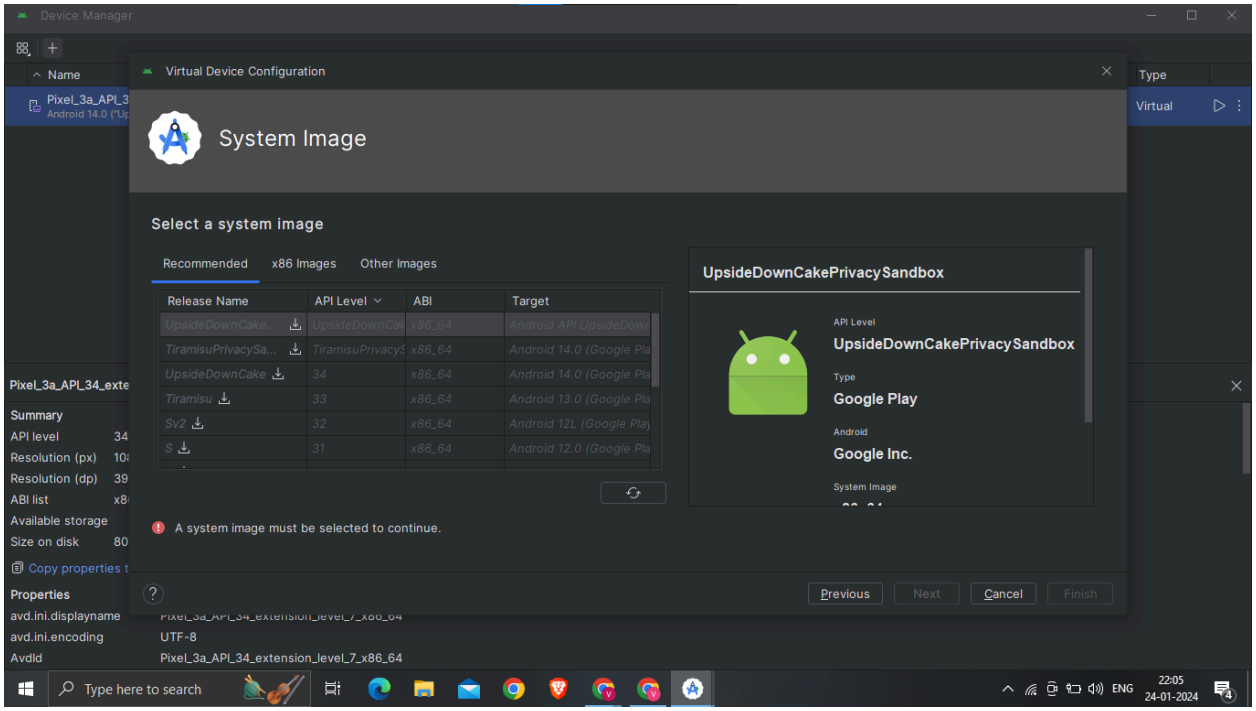


Step 8:- Install Android Studio:-

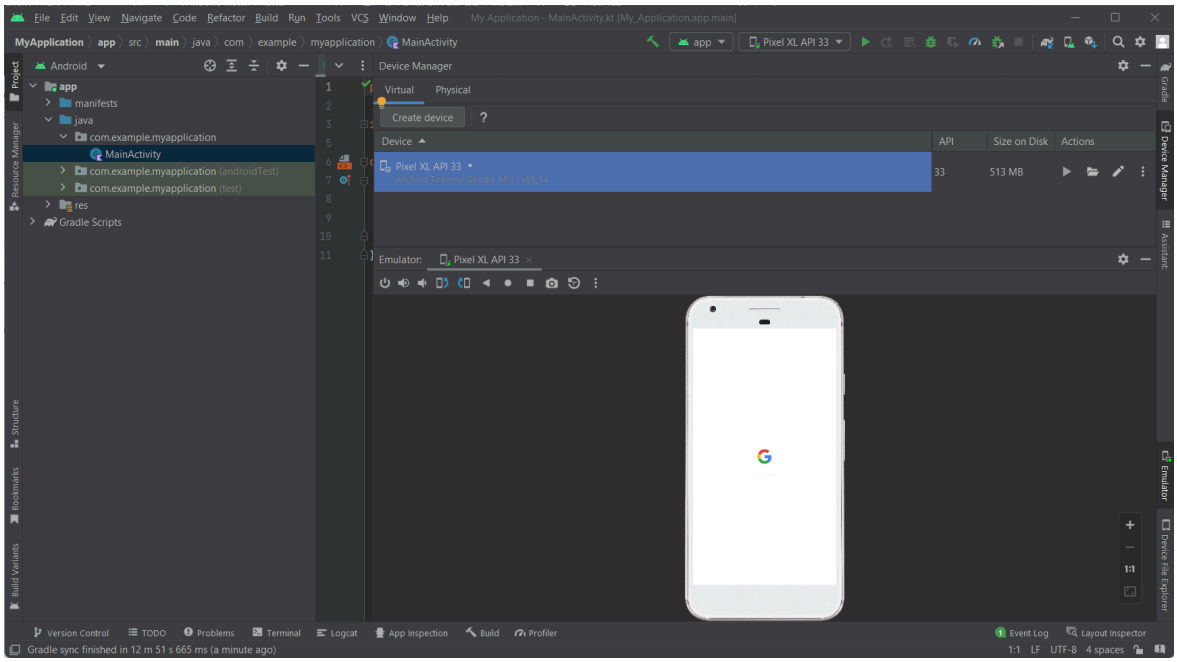


Step 9:- Select the system image for the latest Android version and click on Next.

Now, verify the all AVD configuration. If it is correct, click on Finish. The following screen appears.

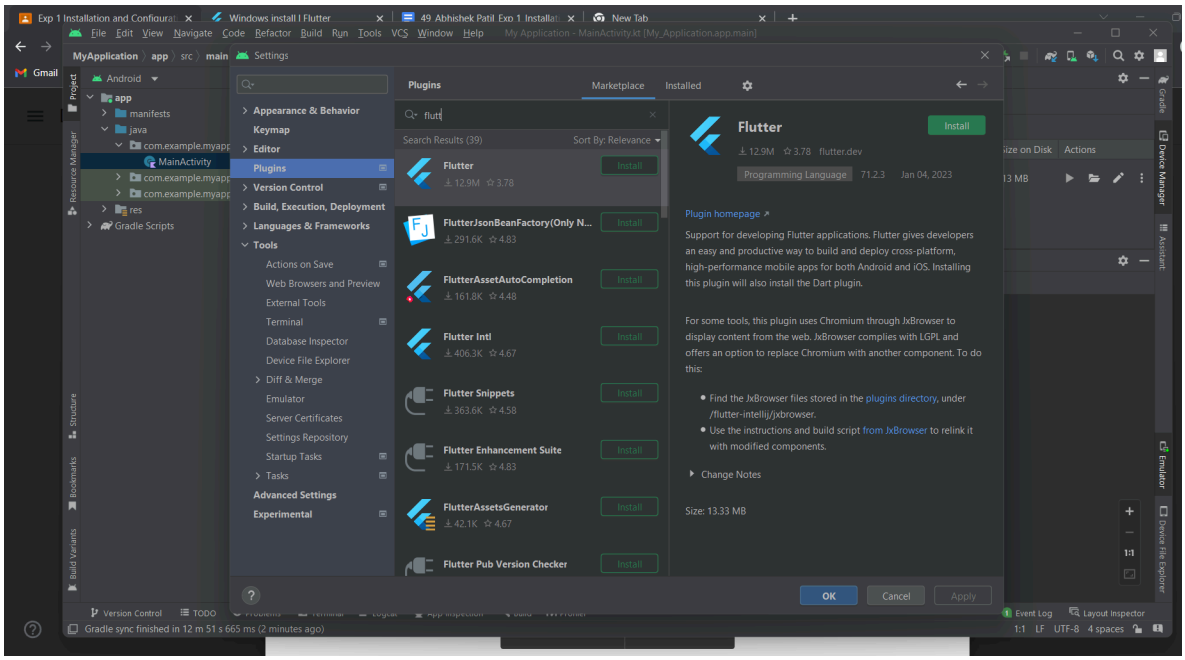


Step 10:- Last, click on the icon pointed into the red color rectangle. The Android emulator displayed as below screen.



Step 11:- Now, install Flutter and Dart plugin for building Flutter application in Android Studio. These plugins provide a template to create a Flutter application, give an option to run and debug Flutter application in the Android Studio itself. Do the following steps to install these plugins.

Open the Android Studio and then go to File->Settings->Plugins.



Step 12:- Now, search the Flutter plugin. If found, select Flutter plugin and click install. When you click on install, it will ask you to install Dart plugin as below screen. Click yes to proceed.

Restart the Android Studio.

CONCLUSION:- I successfully installed Android Studio and combined it with Flutter. I added the Dart plugin and included an Android system image to create a good development setup. This makes it easy to build Flutter apps, showing how important it is to have everything working well together. The experiment achieved its goal of setting up, and now it's ready for future Flutter projects in Android Studio.