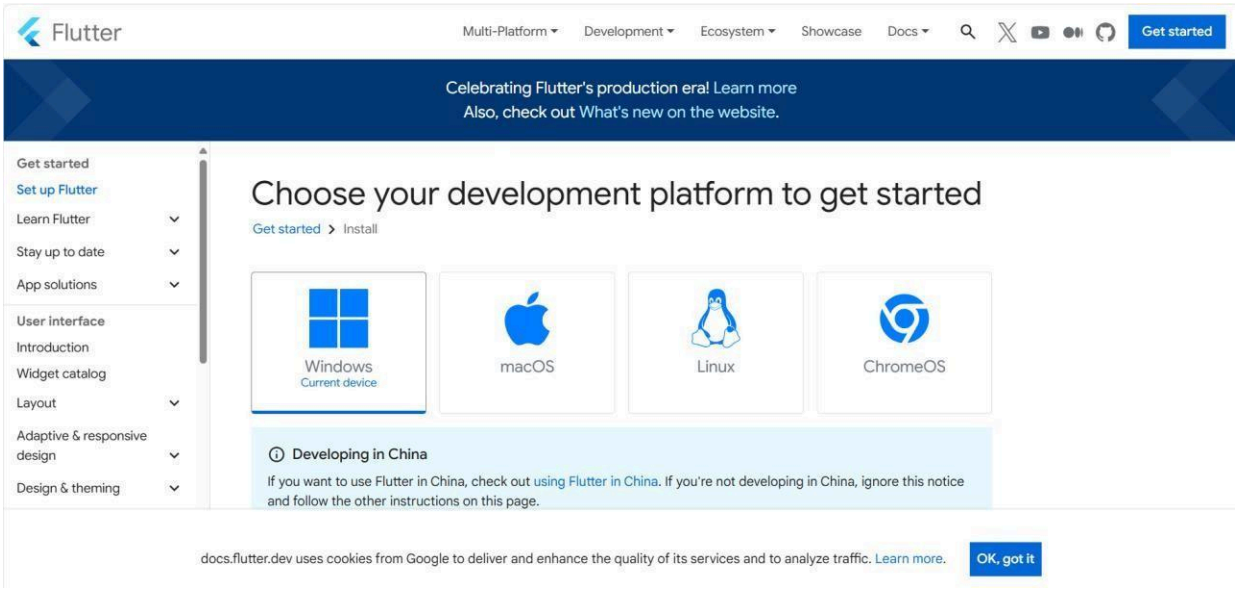
EXPERIMENT NO: - 01

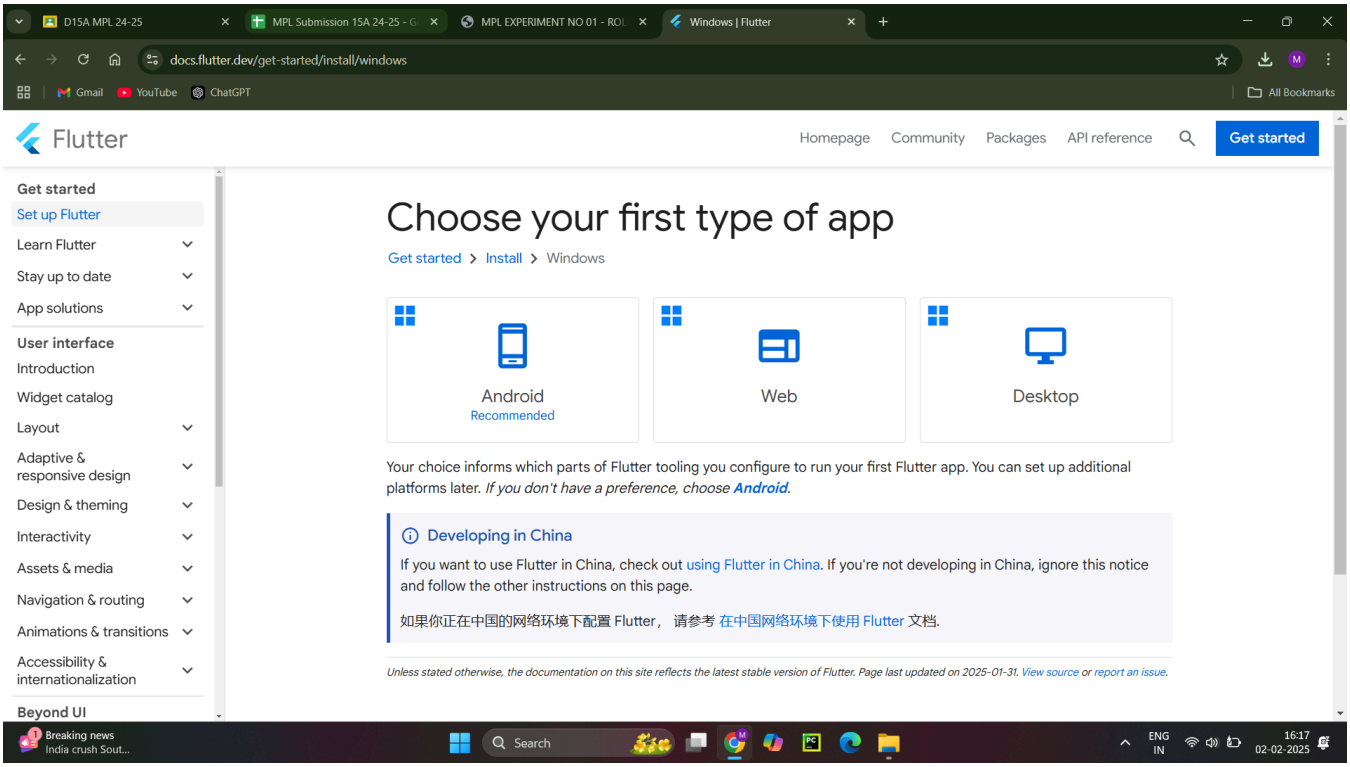
Name:- Manav Punjabi **Class:-** D15A **Roll:No: -** 44

AIM: - Installation and Configuration of Flutter Environment.

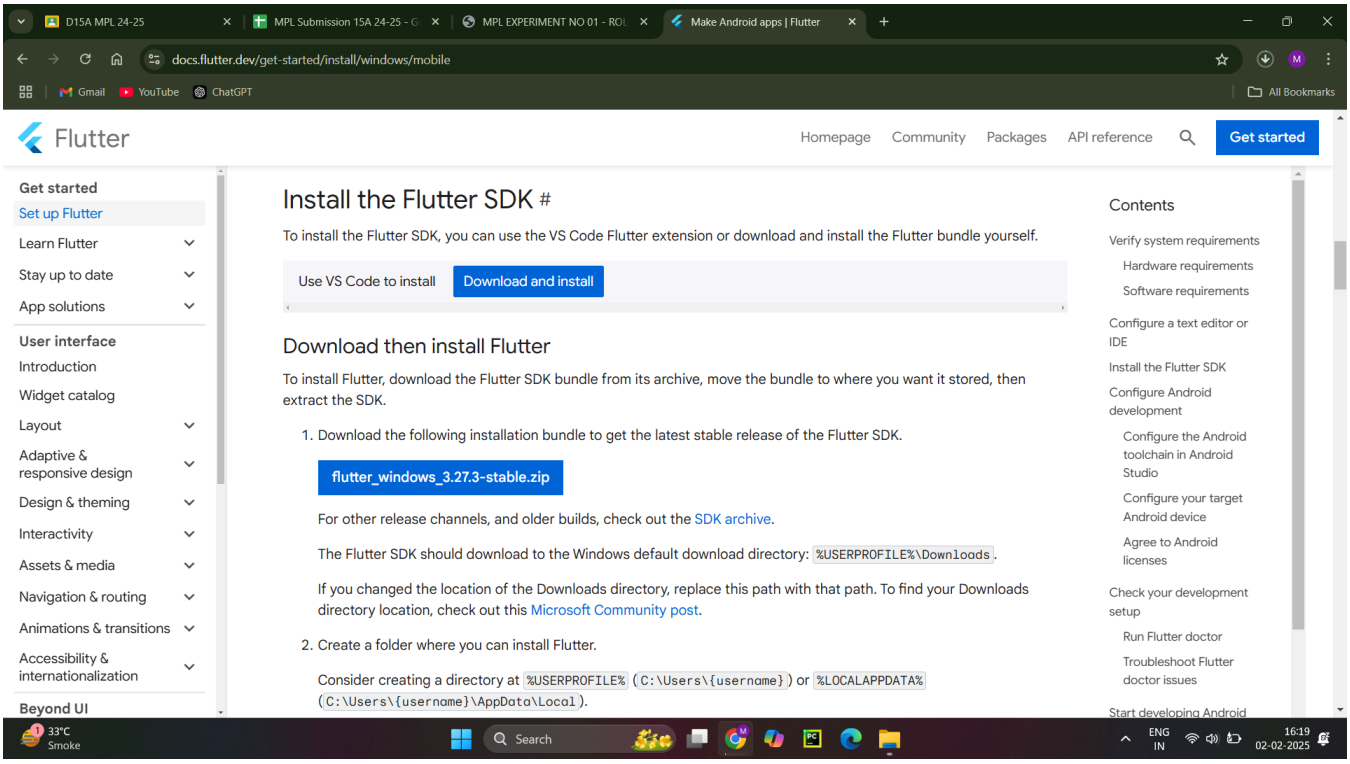
Step 1: Go to the official Flutter website: https://docs.flutter.dev/get-started/install



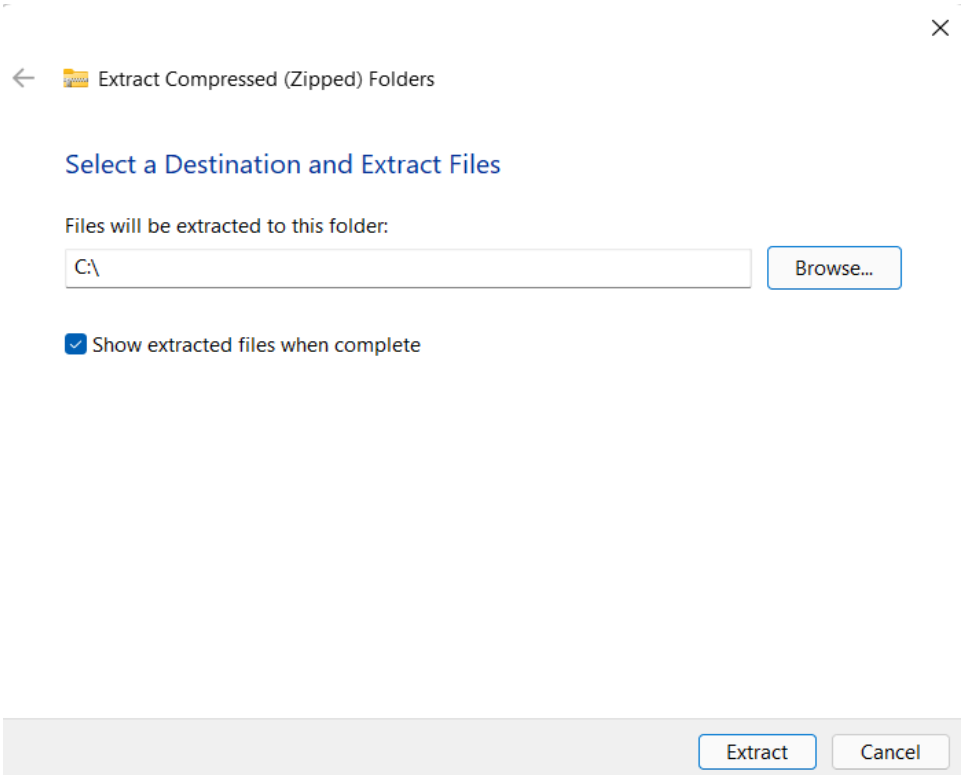
Step 2: To download the latest Flutter SDK, click on the Windows icon > Android



Step 3: For Windows, download the stable release (a .zip file).



Step 4: Extract the ZIP file to a folder (e.g., C:\flutter).

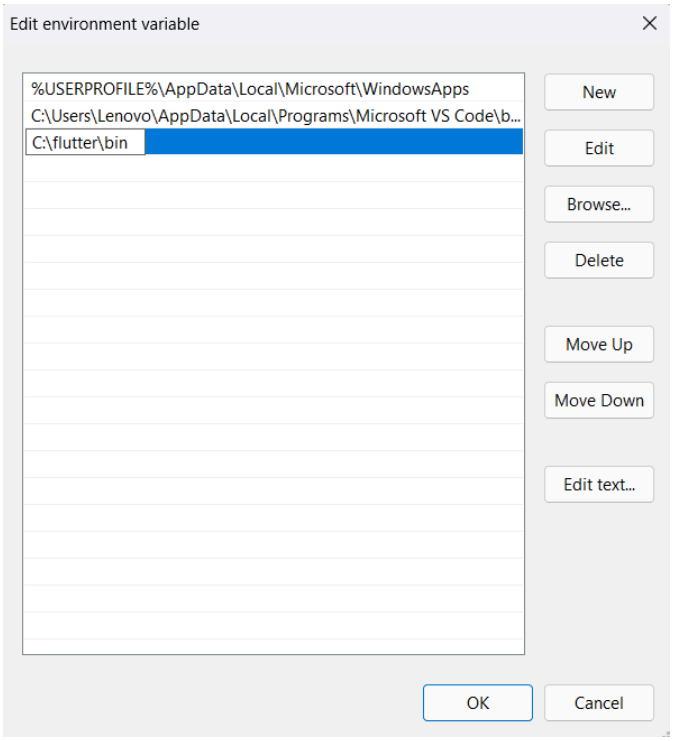


Step 5 :- Add Flutter to System PATH

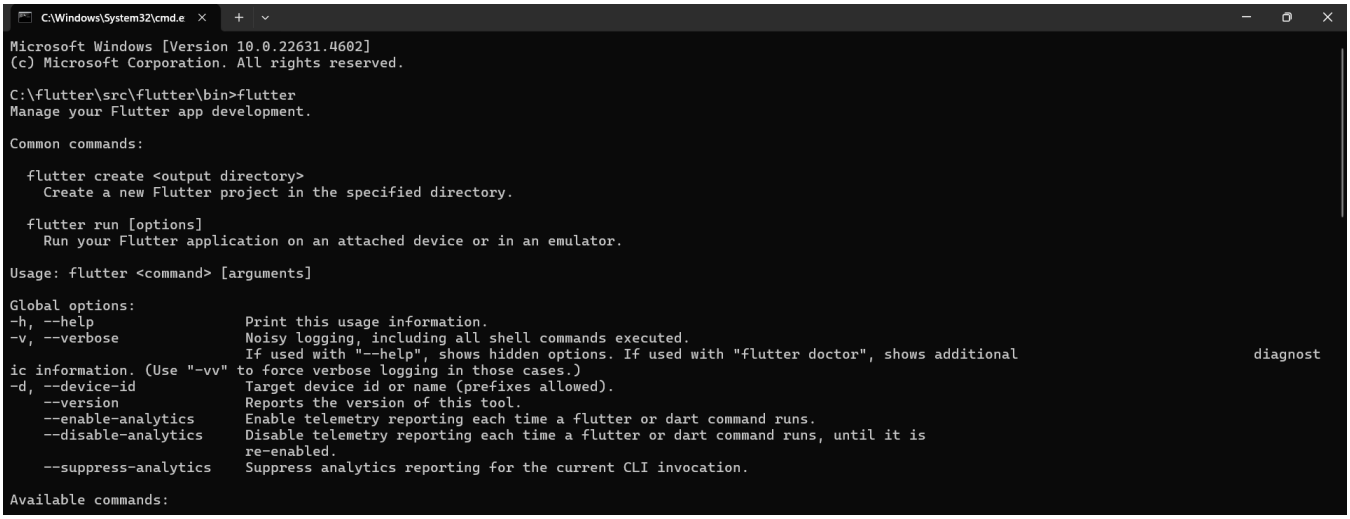
Right-click on the Start Menu > System > Advanced system settings > Environment Variables.

Under System Variables, find Path and click Edit.

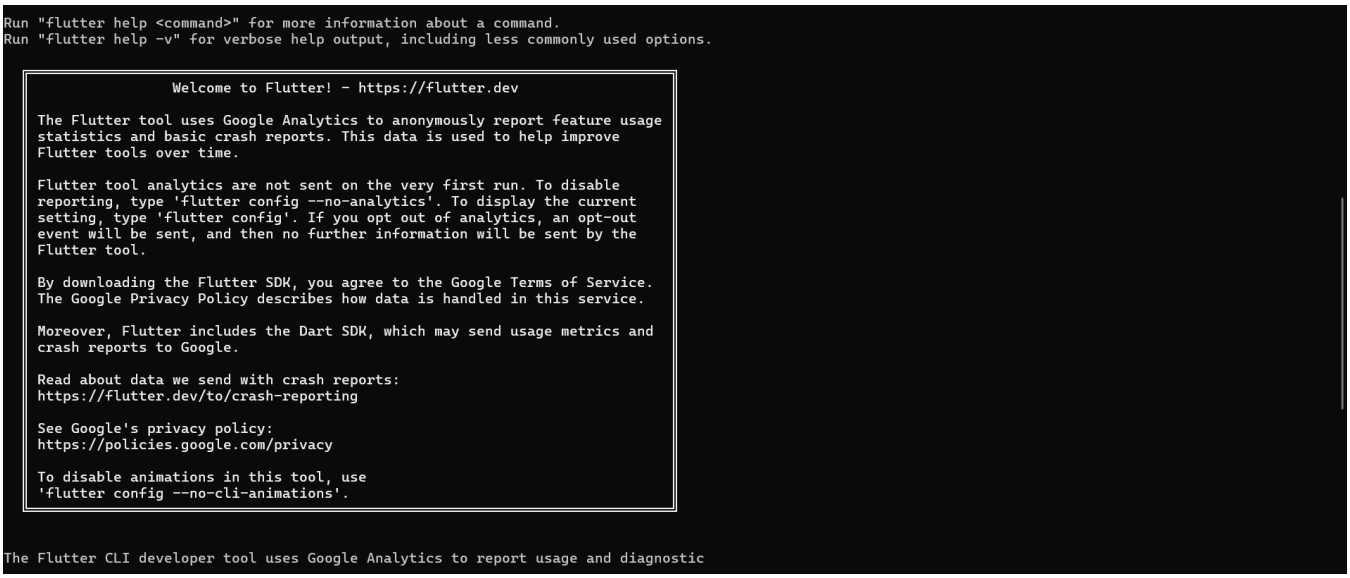
Add the full path to the flutter/bin directory (e.g., C:\flutter\bin).



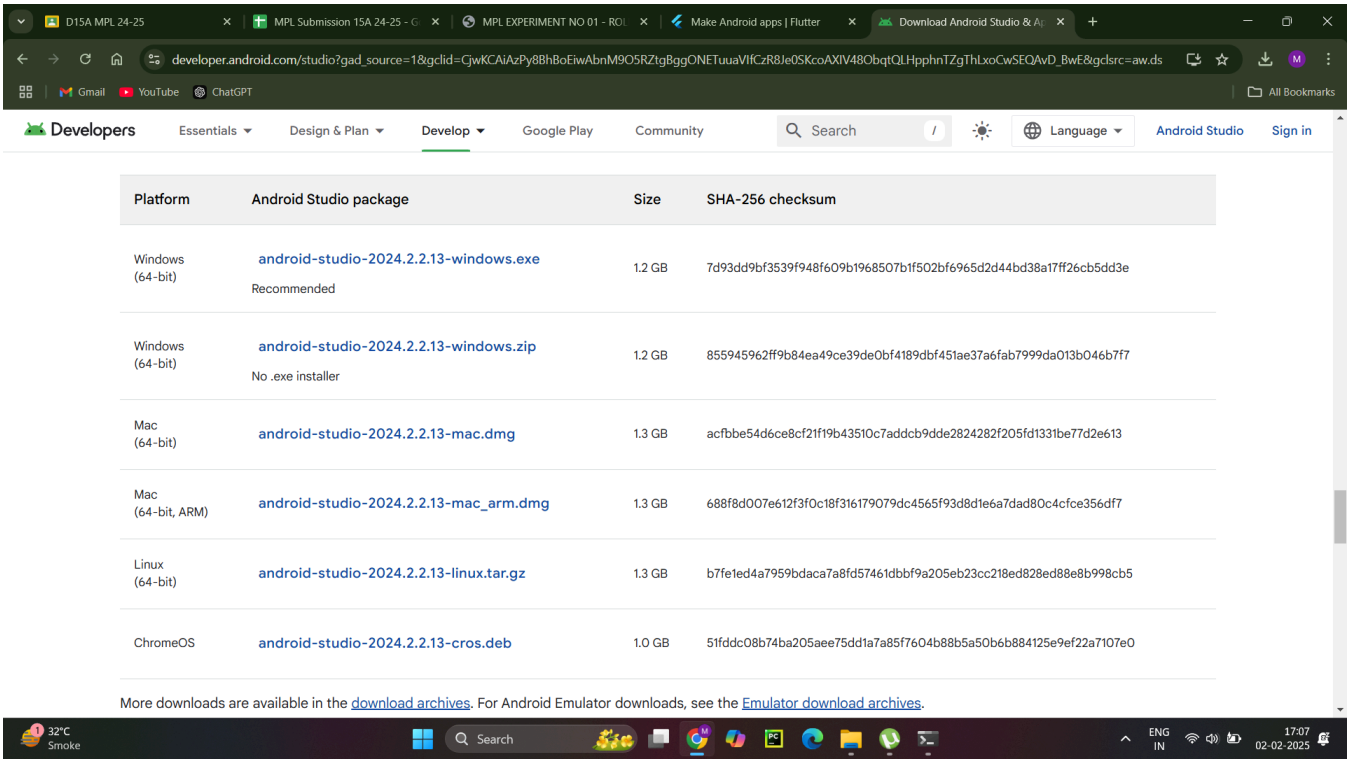
Step 6 : - Now, run the $ flutter command in command prompt.



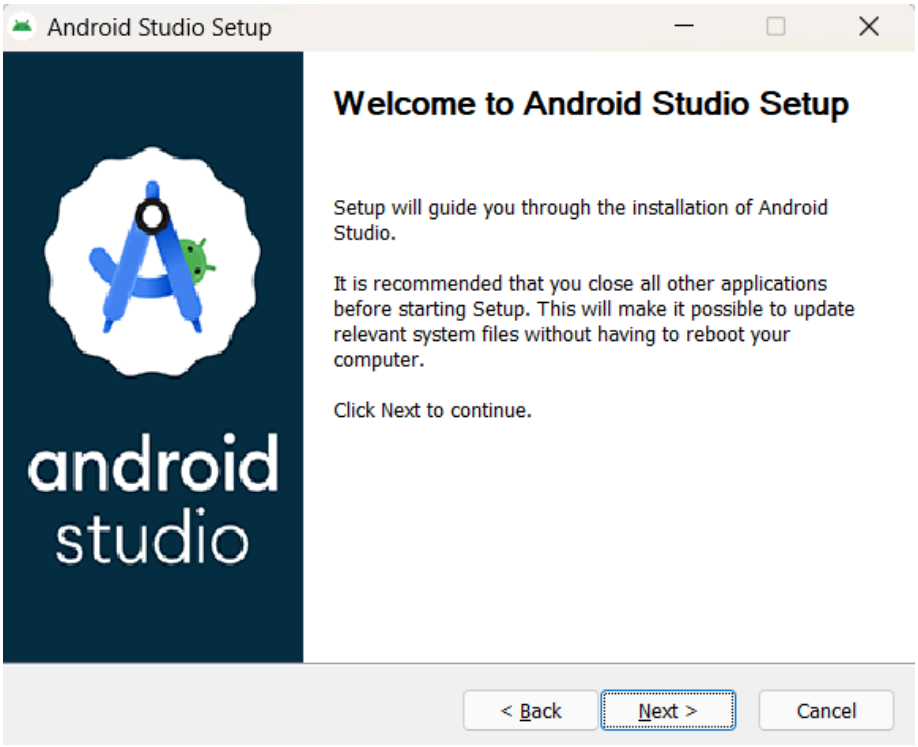
Step 7:- Run the $ flutter doctor command. This command checks for all the requirements of Flutter app development and displays a report of the status of your Flutter installation



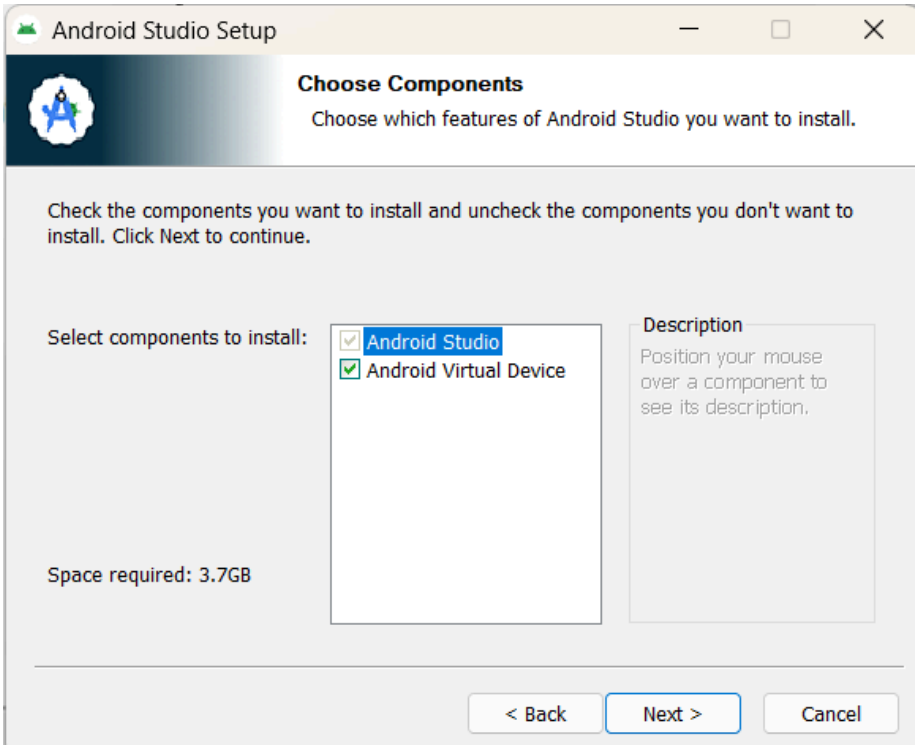
Step 8 : - Go to Android Studio and download the installer.



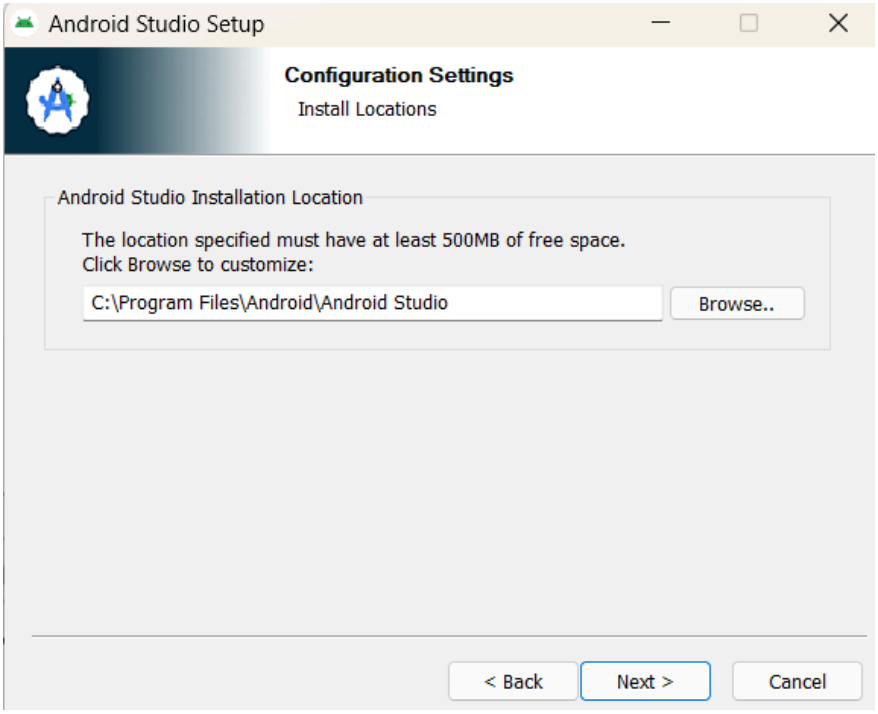
Step 8.1: - When the download is complete, open the .exe file and run it. You will get the following dialog box



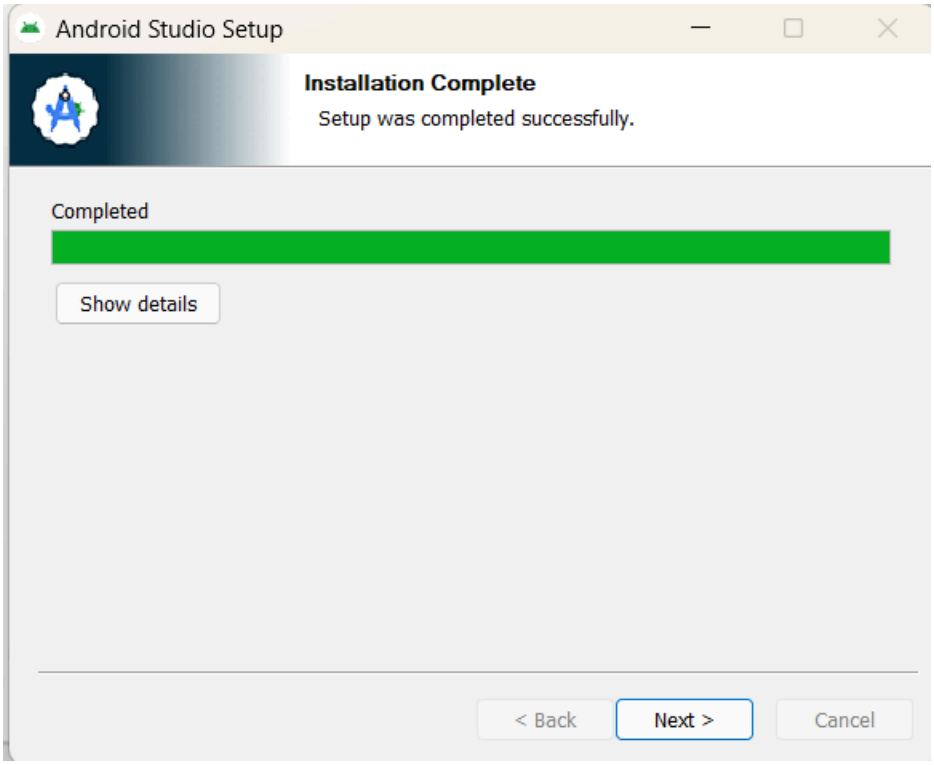
Step 8.2: - Select all the Checkboxes and Click on 'Next' Button.

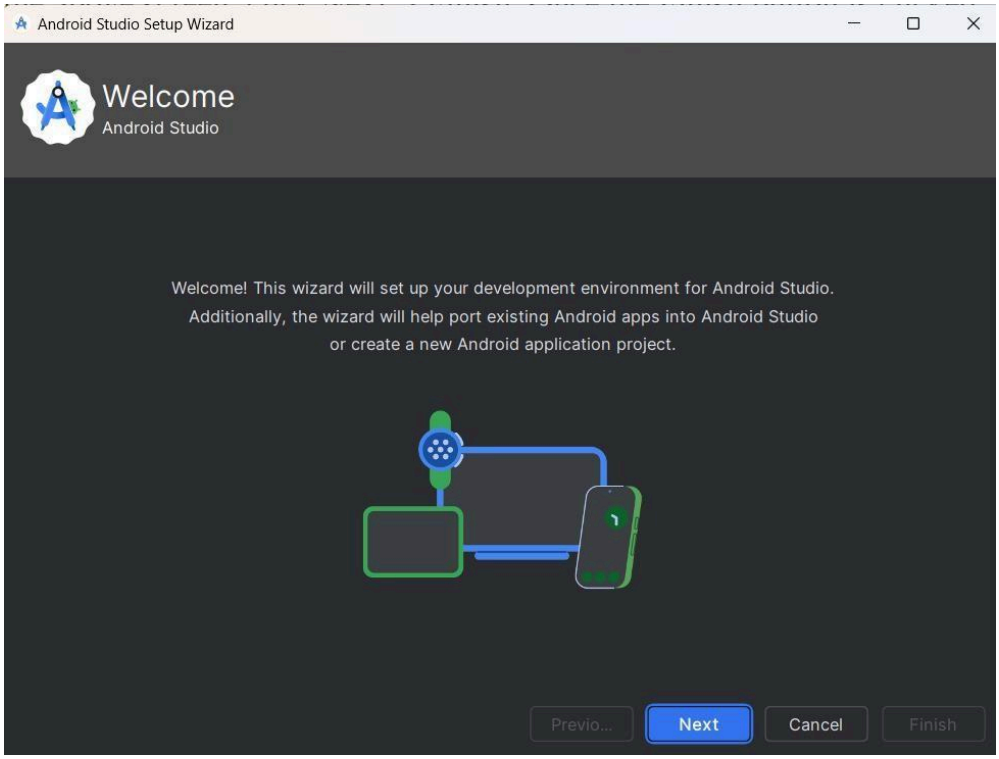


Step 8.3: - Change the destination as per your convenience and click on ‘Next’ Button.

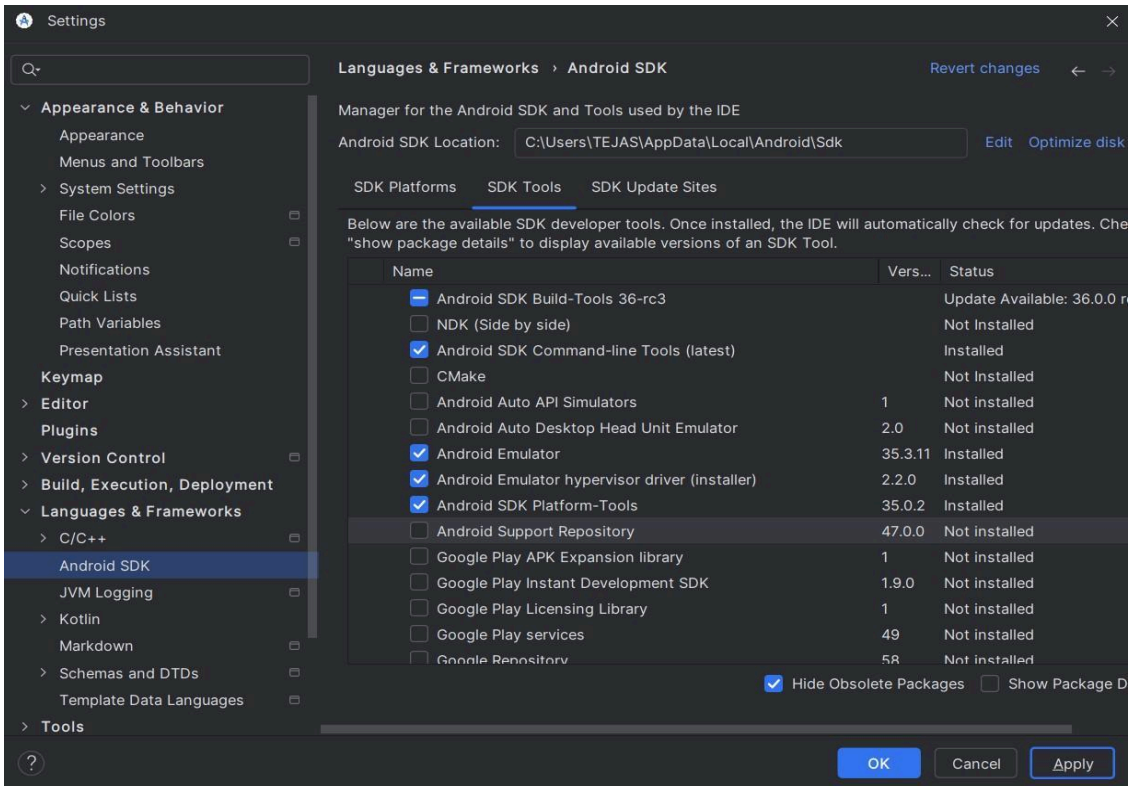


Step 8.4: - Follow the steps of the installation wizard. Once the installation wizard completes, you will get the following screen.

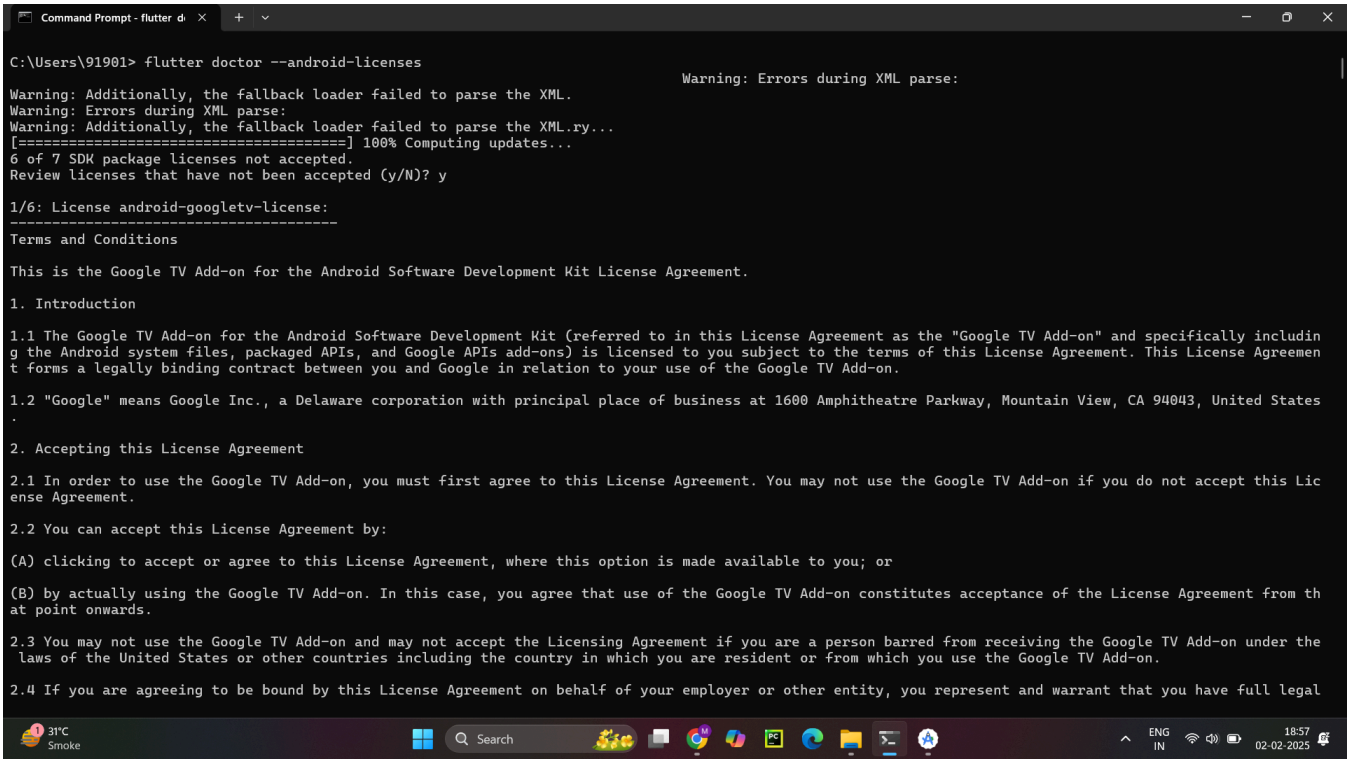


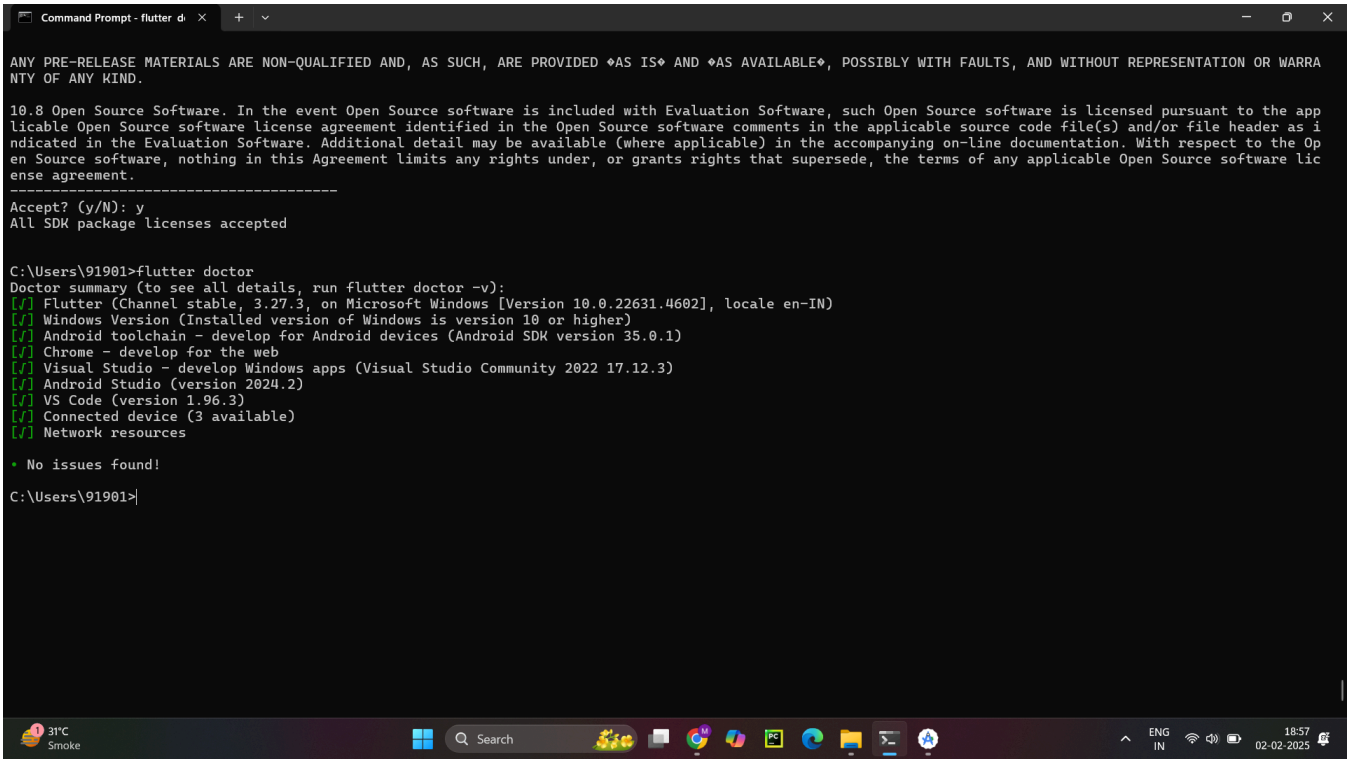


Step 8.5: - Go to Preferences > Appearance & Behavior > System Settings > Android SDK. Select the SDK Tools tab and check Android SDK Command-line Tools and Install it.

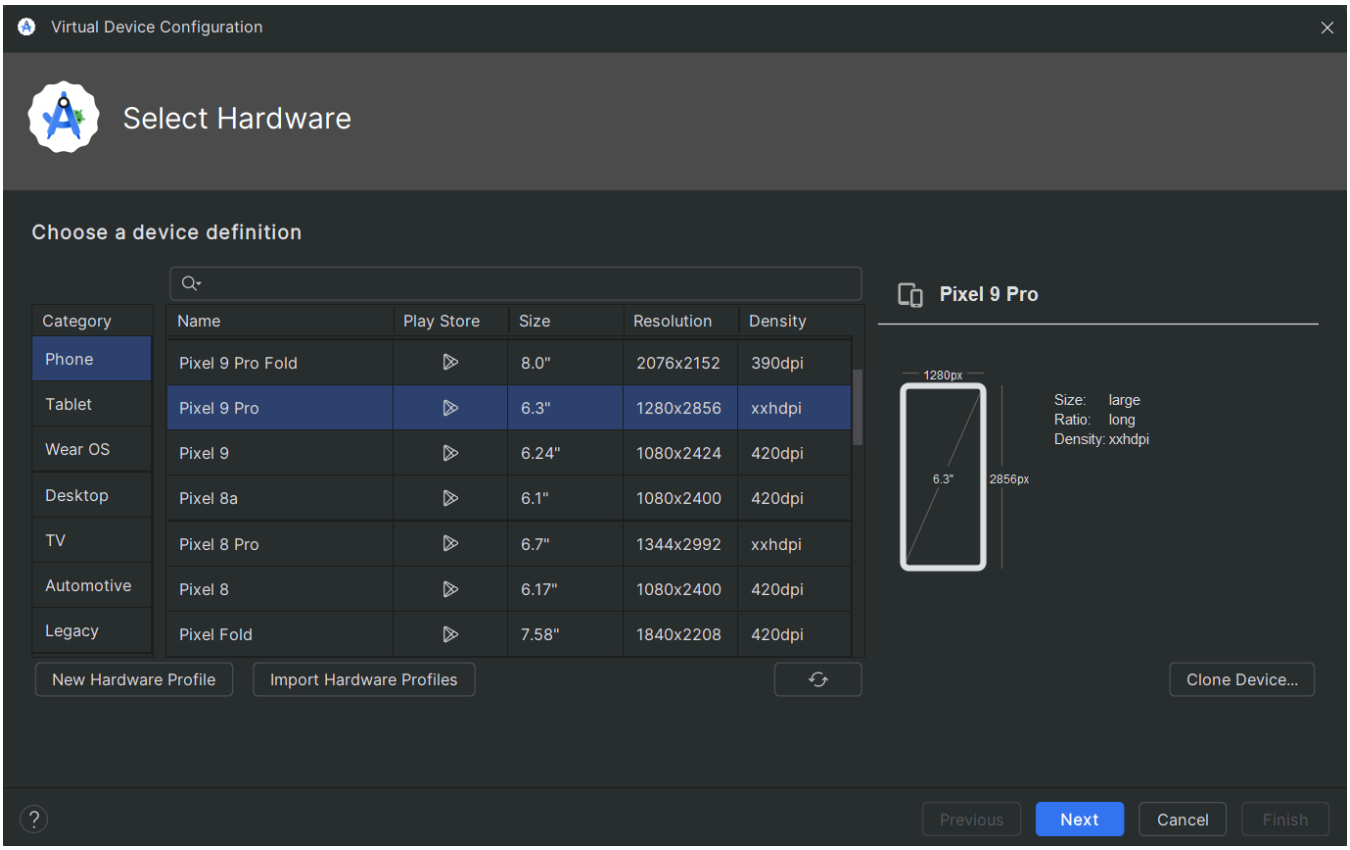


Step 9: - Open a terminal and run the following command

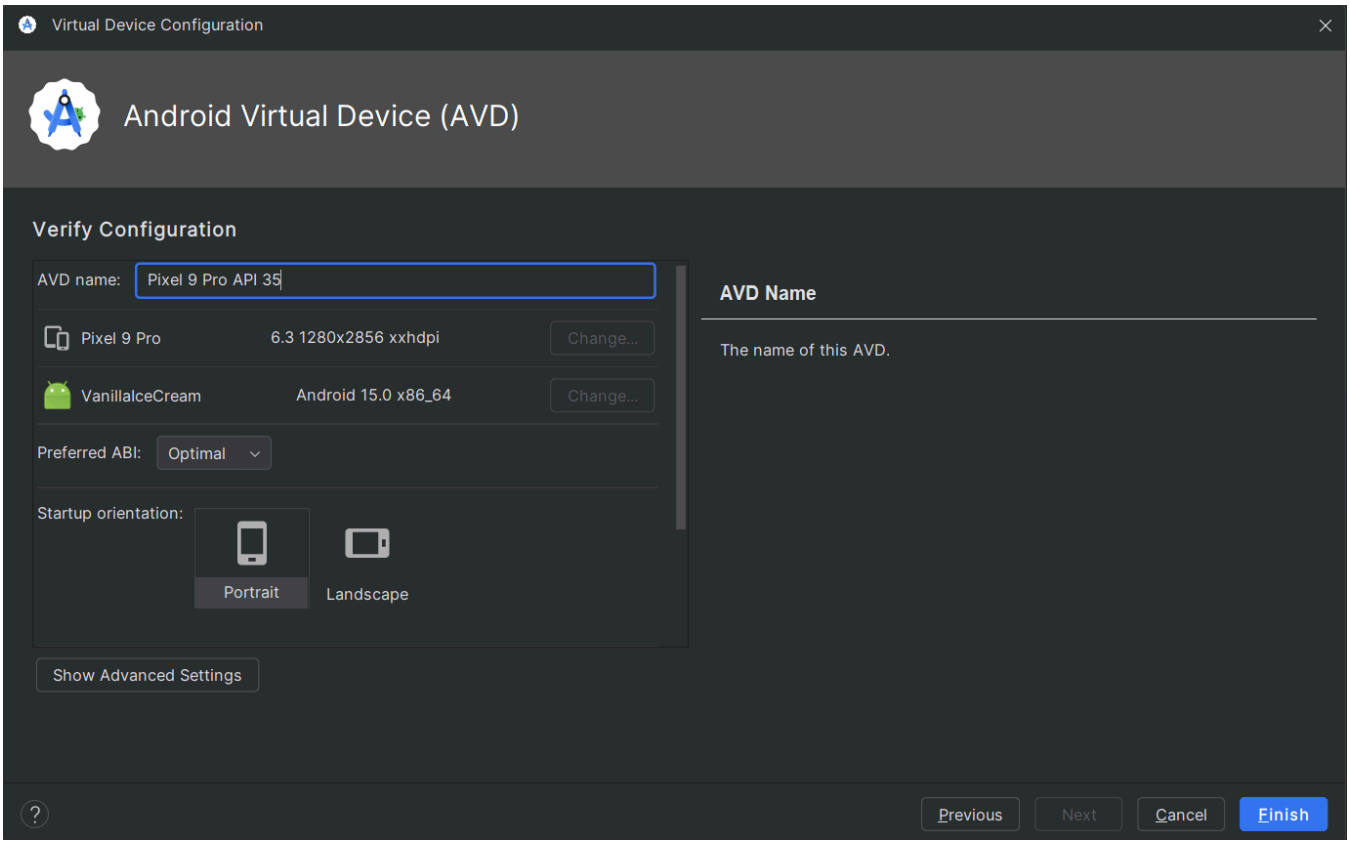




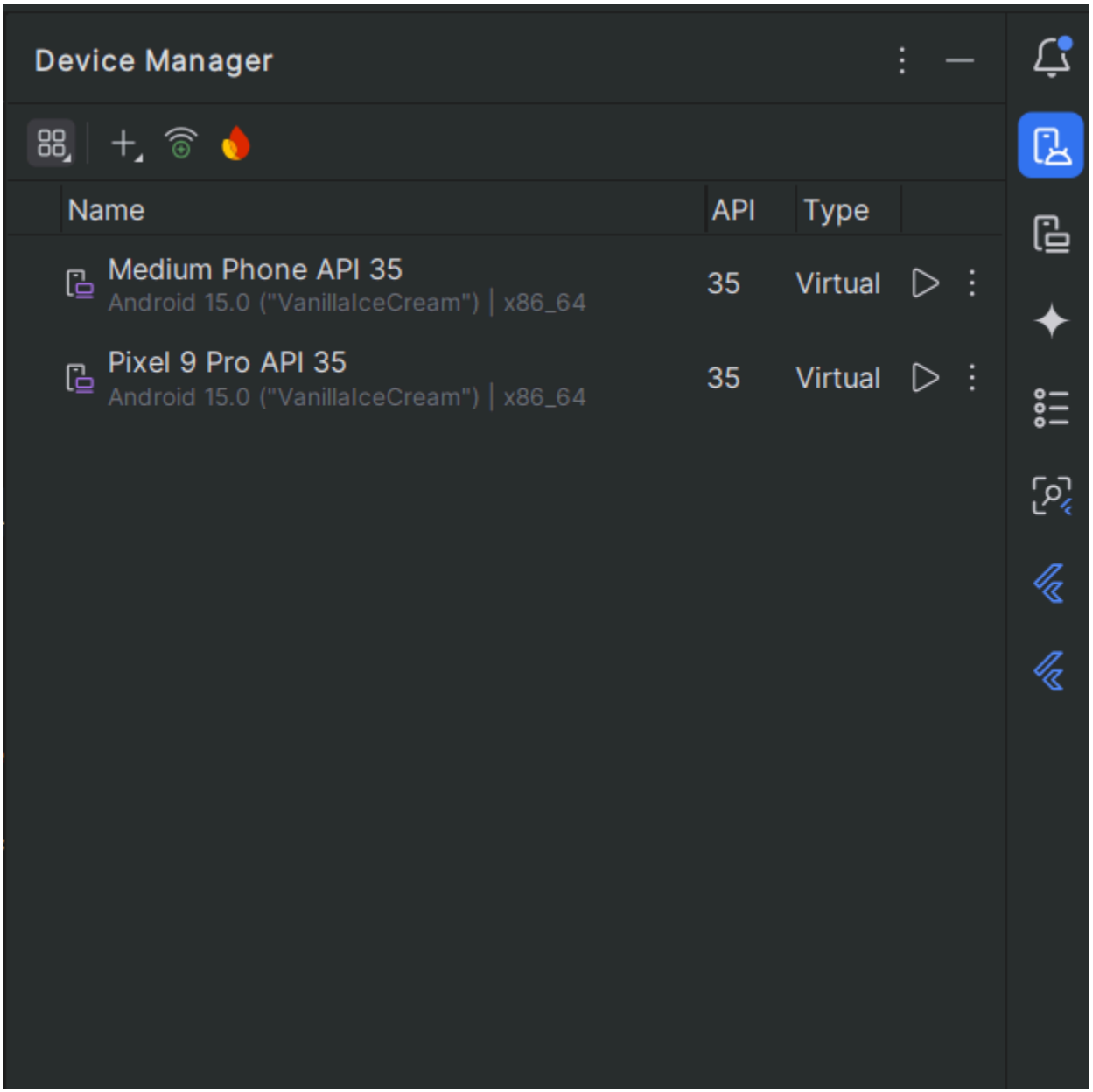
Step 10: - Next, you need to set up an Android emulator. It is responsible for running and testing the Flutter application



Step 10.1: - Open Android Studio and go to Tools > AVD Manager. Create a new virtual device.


Virtual Device Configuration
Android Virtual Device (AVD)
Verify Configuration
AVD name:
Pixel 9 Pro API 35
Pixel 9 Pro
6.3 1280x2856 xxhdpi
Change...
VanillaIceCream
Android 15.0 x86_64
Change...
Preferred ABI:
Optimal
Startup orientation:
Portrait
Landscape
Show Advanced Settings
AVD Name
The name of this AVD.
Previous
Next
Cancel
Finish

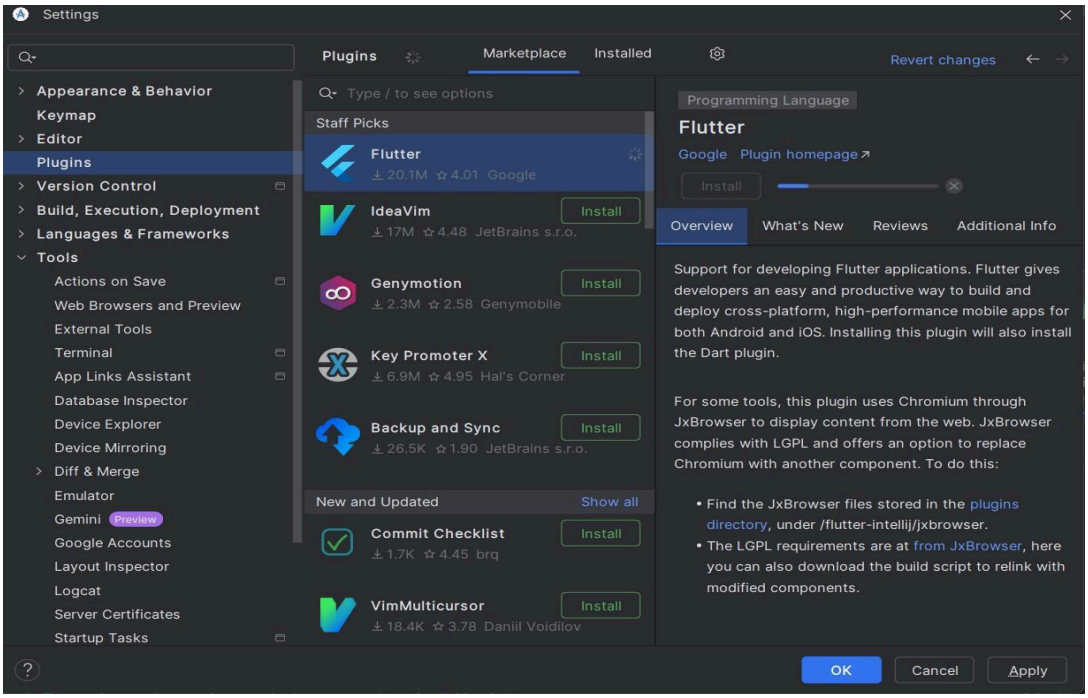
Step 10.2: - Click on the icon pointed into the red color rectangle. The Android emulator displayed as below screen

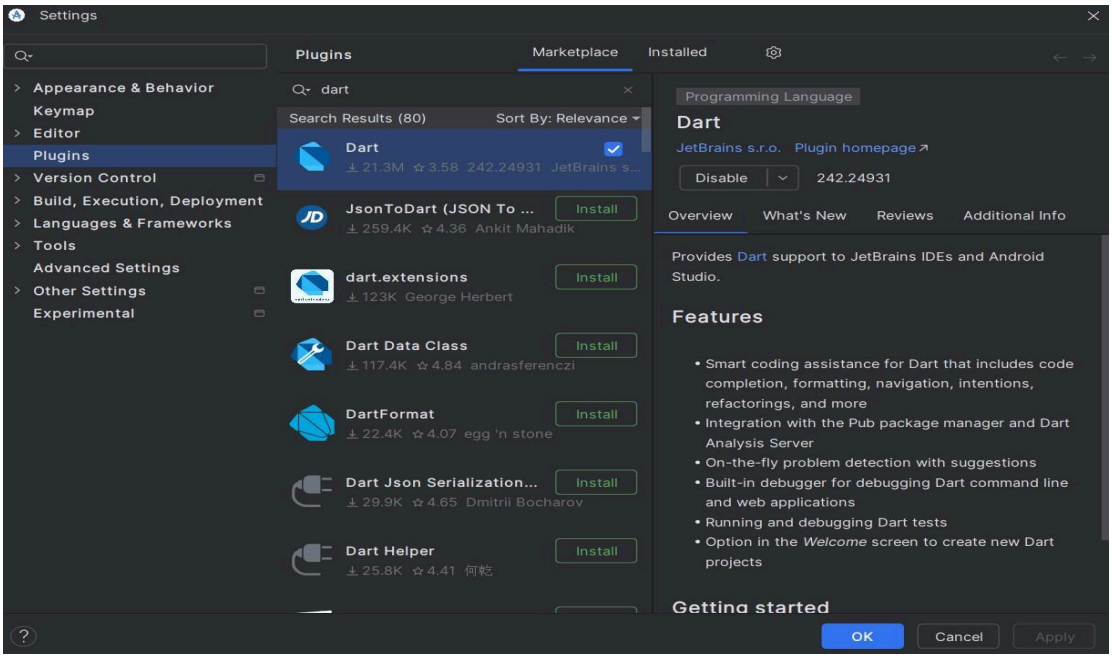


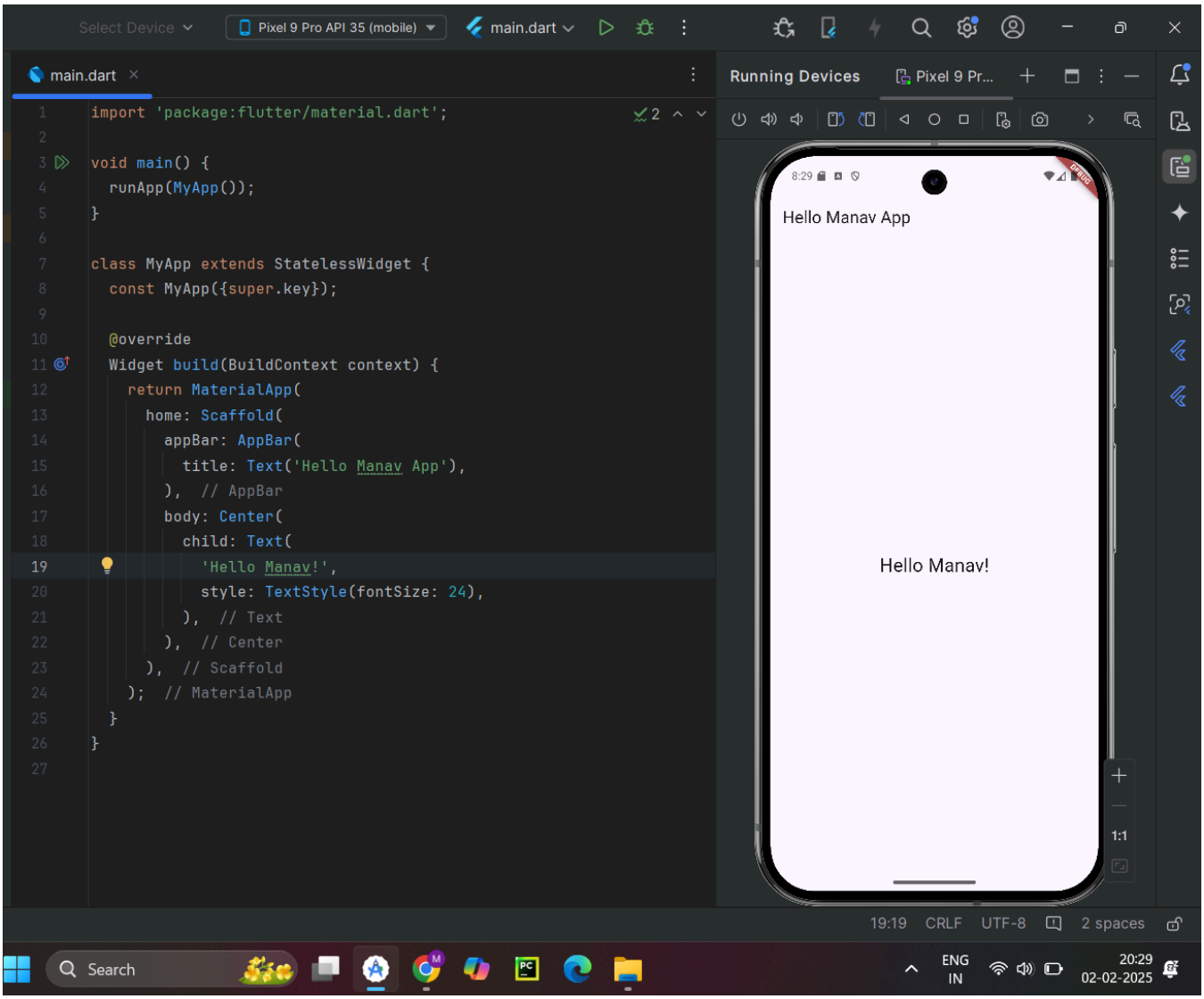
Running Devices
Pixel 9 Pr...
7:19
Sun, Feb 2
Home
7:19
PM / Sun
Play Store
Gmail
Photos
YouTube
1:1
9:74
CRLF
UTF-8
4 spaces

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

Step 11.1: - Open the Android Studio and then go to File->Settings->Plugins. Now, search the Flutter plugin. If found, select Flutter plugin and click install





Step 11.2: - Restart the Android Studio

Step 12: - Go to File > New Project > Create Flutter Project, then select the project name and location, and click Next to proceed.