

Experiment No: 1

Experiment No 1 1: Installation and Configuration of Flutter Environment.	
ROLL NO	09
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CLASS	D15-B
SUBJECT	MAD & PWA Lab
LO-MAPPED	

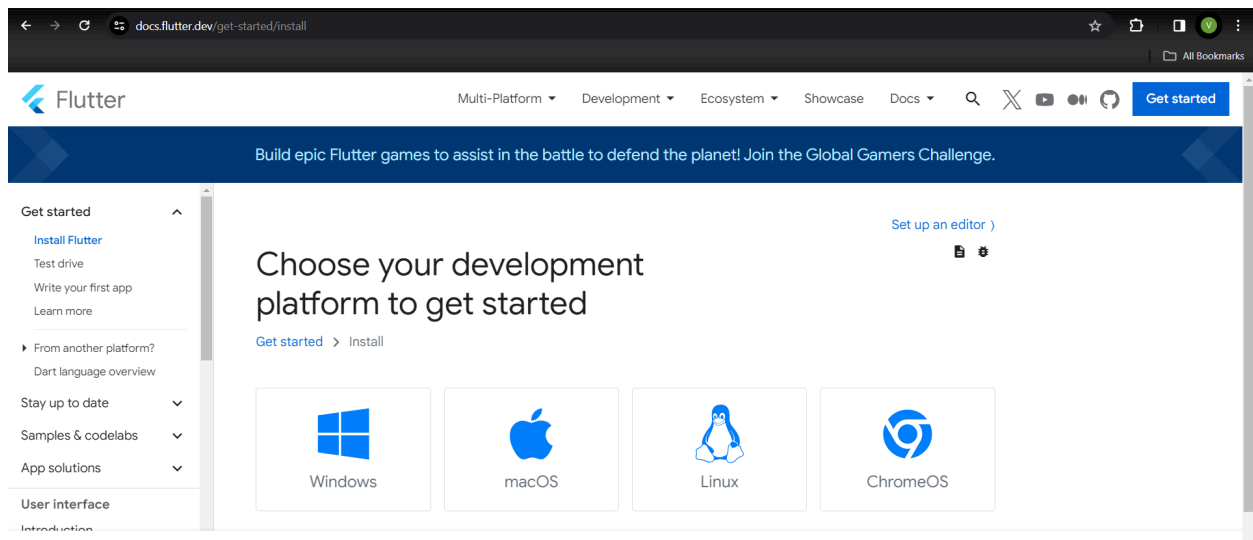
Aim: Installation and Configuration of Flutter Environment.

Theory: Flutter is basically Google's portable user interface (UI) toolkit, used to build and develop eye-catching, natively-built applications for mobile, desktop, and web, from a single codebase. Flutter is free, open-sourced, and compatible with existing code. It is utilized by companies and developers around the world, due to its user-friendly interface and fairly simple, yet to-the-point commands.

Step 1: Download Flutter SDK

Visit the official Flutter website: <https://docs.flutter.dev/get-started/install>.

Click on the Windows icon to download the Flutter SDK.



Once downloaded, extract the zip file to your desired installation folder (e.g., C:/Flutter).

Get the Flutter SDK

1. Download the following installation bundle to get the latest stable release of the Flutter SDK:

`flutter_windows_2.2.3-stable.zip`

For other release channels, and older builds, see the [SDK releases](#) page.

2. Extract the zip file and place the contained `flutter` in the desired installation location for the Flutter SDK (for example, `C:\Users\<your-user-name>\Documents`).

Warning: Do not install Flutter in a directory like `C:\Program Files\` that requires elevated privileges.

If you don't want to install a fixed version of the installation bundle, you can skip steps 1 and 2. Instead, get the source code from the [Flutter repo](#) on GitHub, and change branches or tags as needed. For example:

```
C:\src>git clone https://github.com/flutter/flutter.git -b stable
```

You are now ready to run Flutter commands in the Flutter Console.

← Extract Compressed (Zipped) Folders

Select a Destination and Extract Files

Files will be extracted to this folder:

C:\Flutter

Browse...

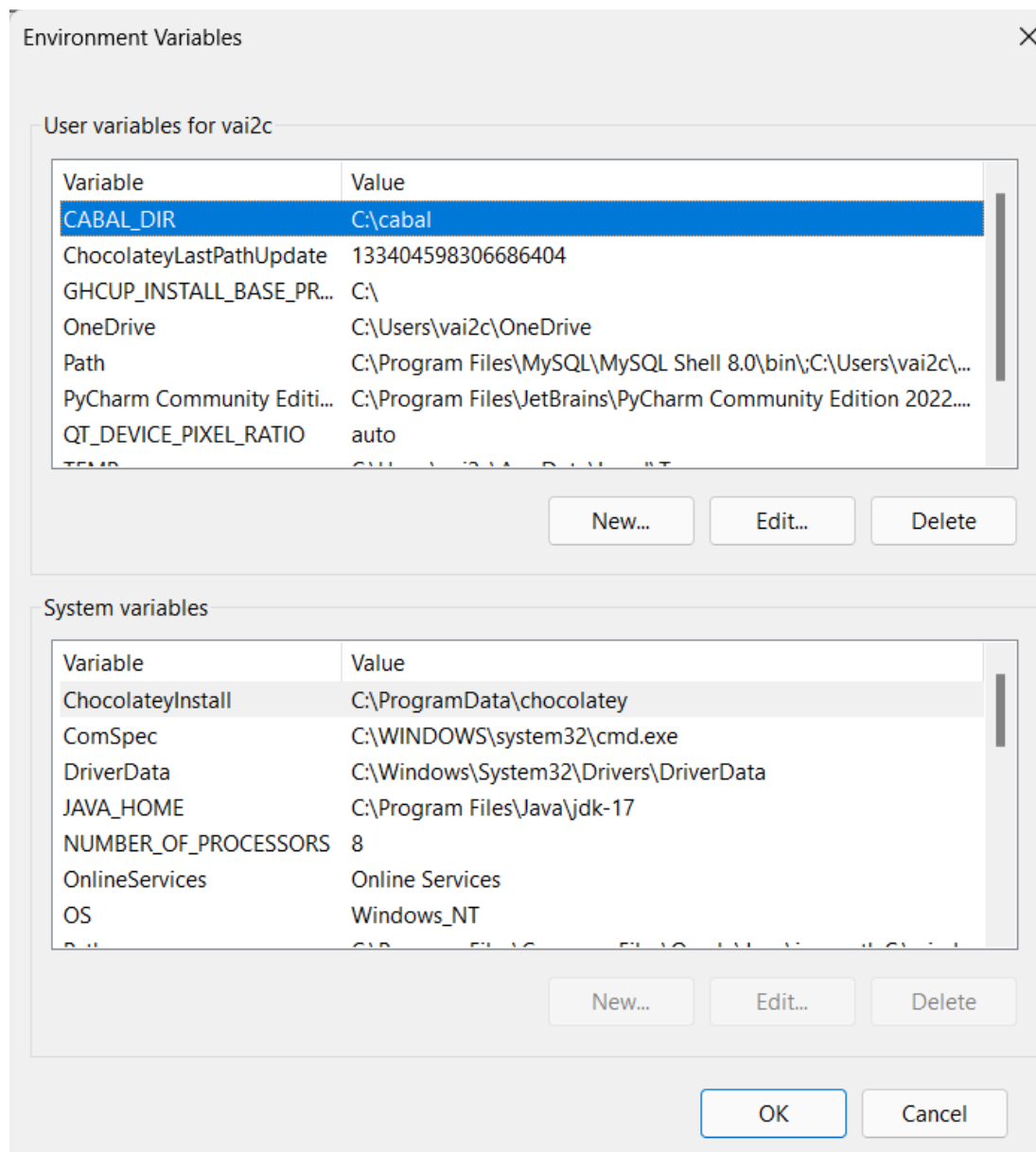
☒ Show extracted files when complete

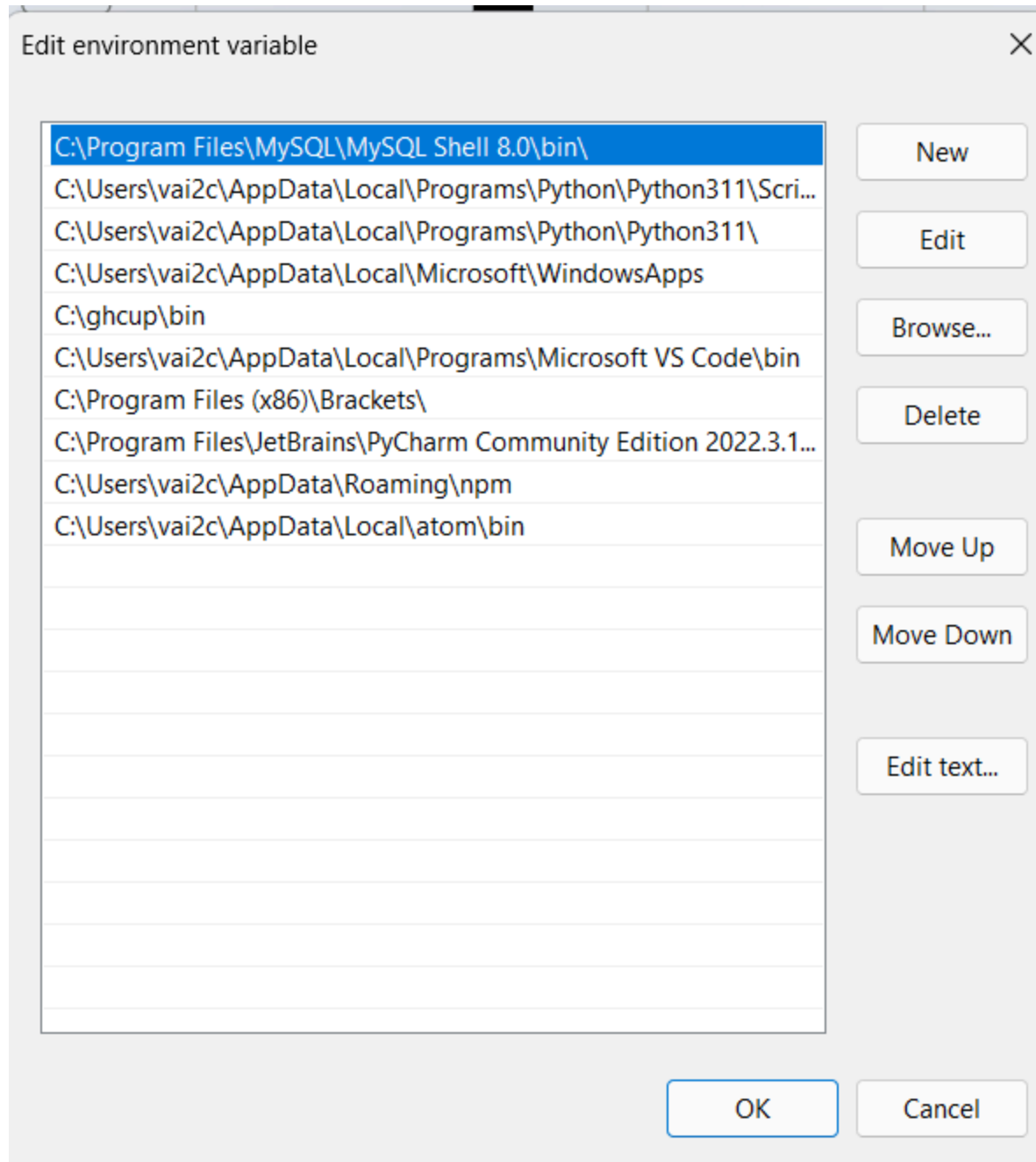
Next

Cancel

Step 2: Update System Path

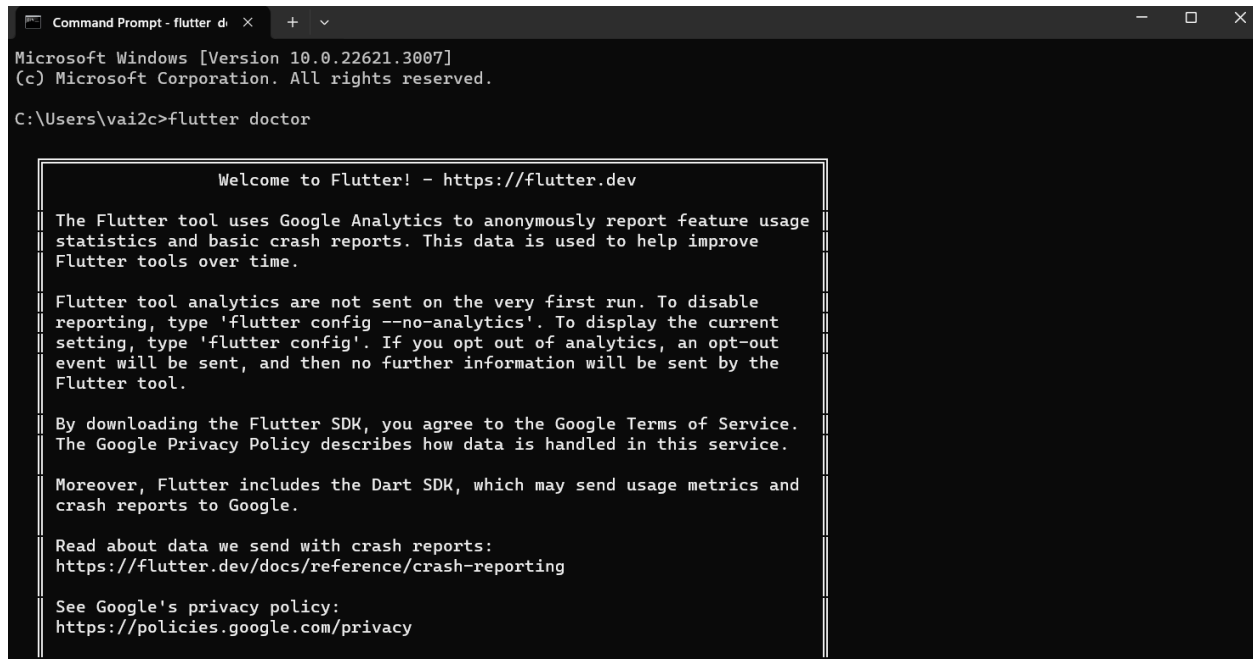
- Go to My Computer properties -> advanced tab -> environment variables.
- Select "path" and click on edit.
- Click on New and add the path of the Flutter bin folder (e.g., C:/Flutter/bin).
- Click OK in each window.



**Step 3: Run Flutter Commands**

Open the command prompt and run flutter to ensure the installation is successful.

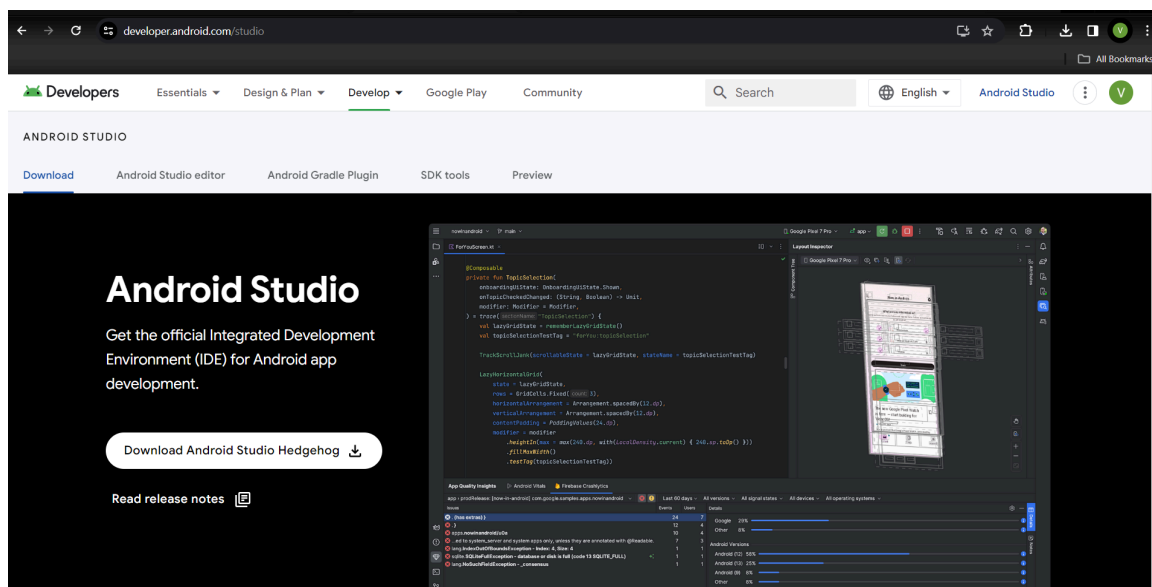
Run flutter doctor to check for any missing dependencies

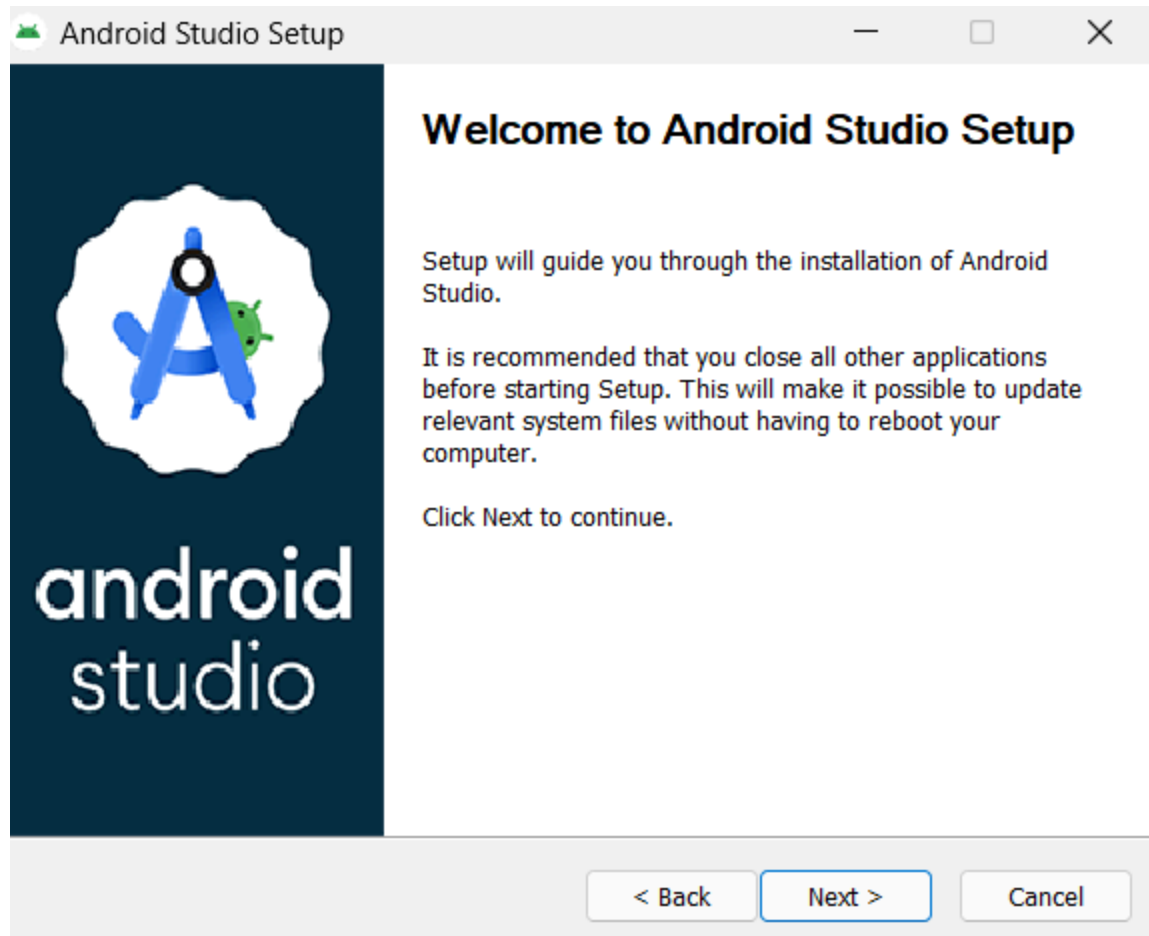


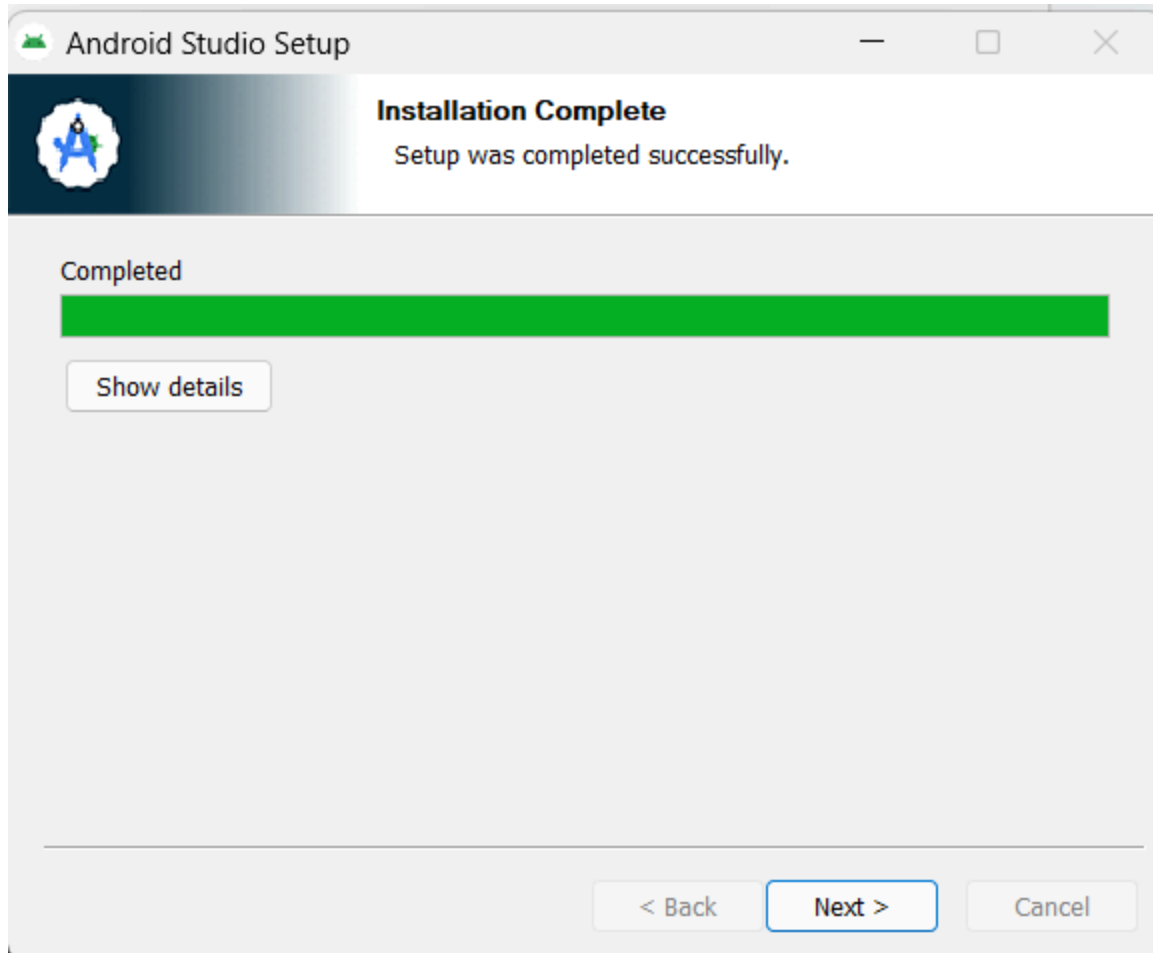
Step 4: Install Android SDK (if needed)

If Flutter doctor indicates a missing Android SDK, install Android Studio:

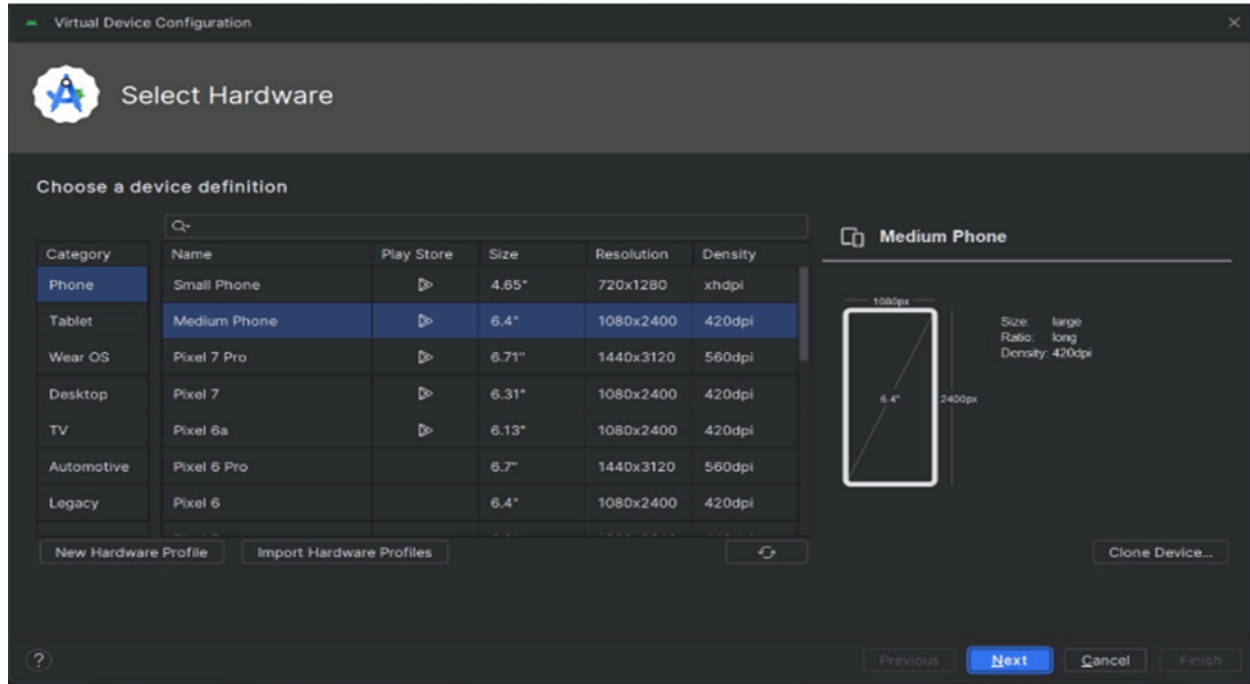
- Download Android Studio from the official site.
- Run the installer and follow the installation wizard.
- Launch Android Studio and complete the setup.



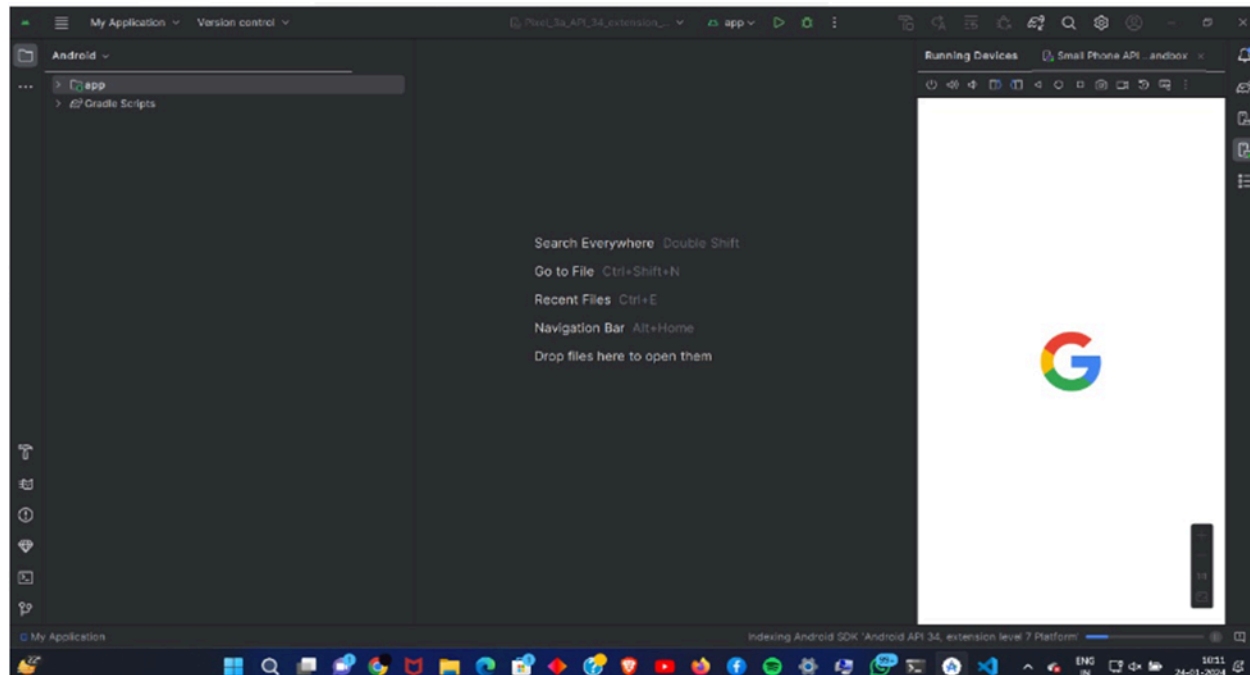


**Step 5:** Set Up Android Emulator

- In Android Studio, go to Tools -> Android -> AVD Manager.
- Create a Virtual Device by choosing a device definition and system image.



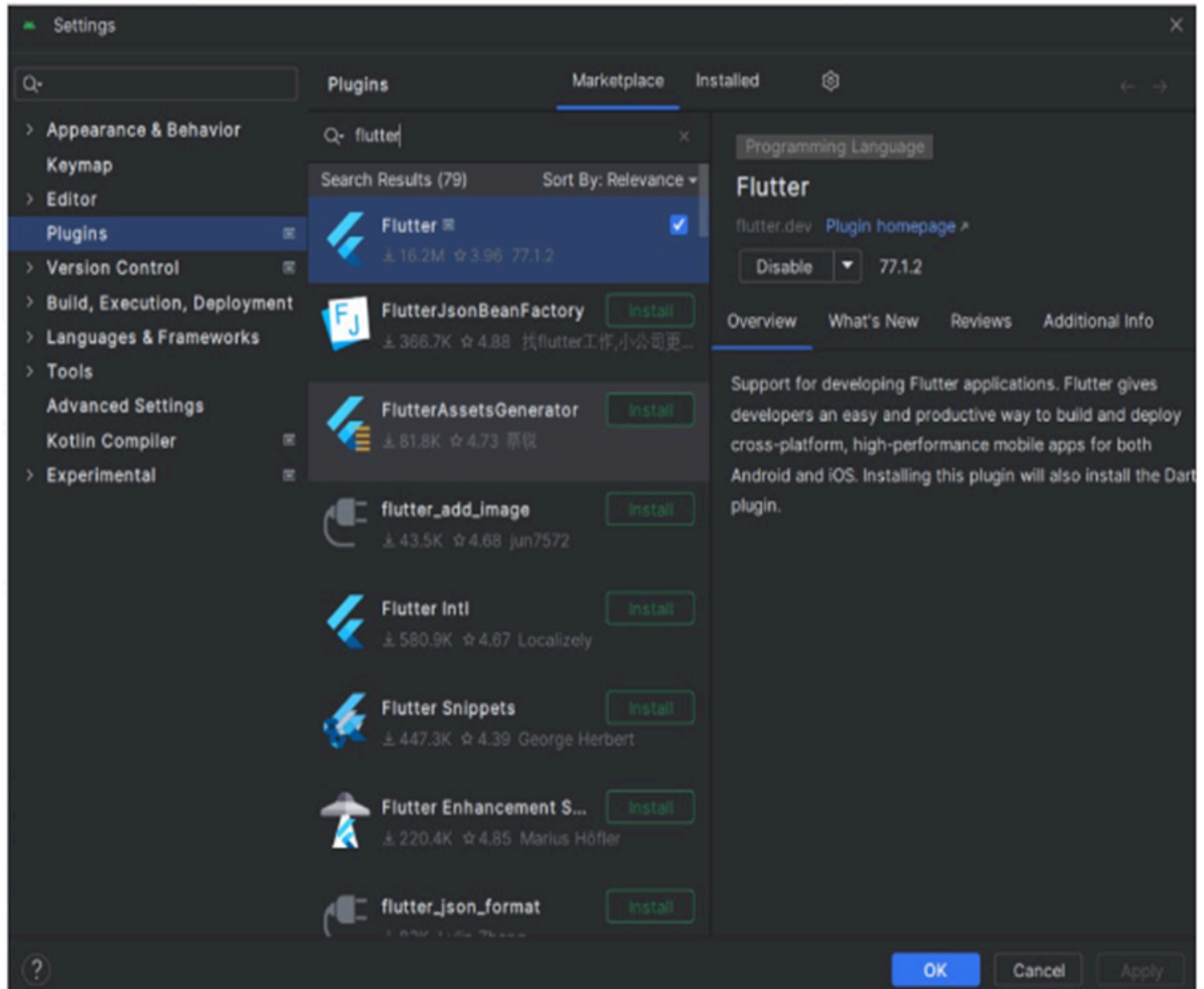
- Start the emulator.

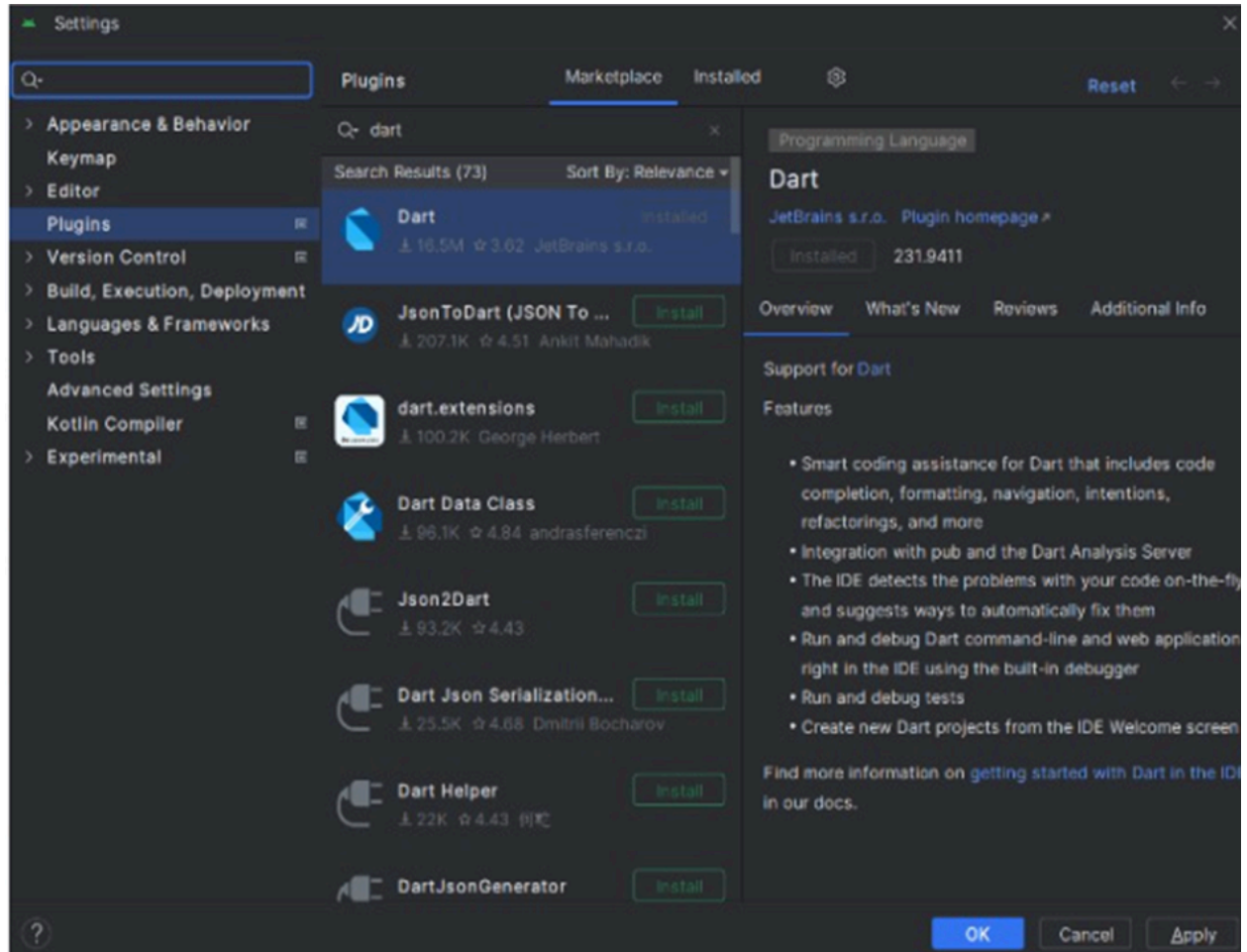


Step 6: Install Flutter and Dart Plugins in Android Studio

- Open Android Studio, go to File -> Settings -> Plugins.

- Search for and install the Flutter plugin.
- When prompted, install the Dart plugin as well.
- Restart Android Studio.





Conclusion:

In this experiment, we successfully installed and configured the Flutter SDK, set up an Android emulator, and installed necessary plugins in Android Studio for Flutter app development.