Experiment No: 1

Experiment No 1 1: Installation and Configuration of Flutter Environment.	
ROLL NO	70
NAME	Lavin Valechha
CLASS	D15B
SUBJECT	MAD & PWA Lab
LO- MAPPED	

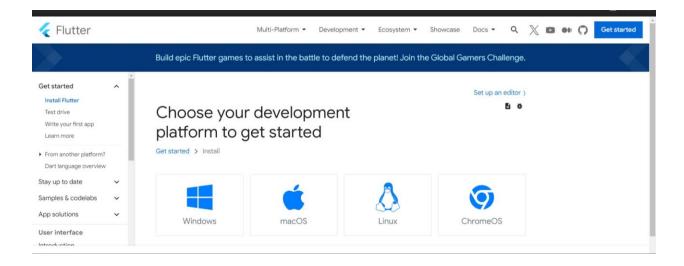
Aim: Installation and Configuration of Flutter Environment.

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).

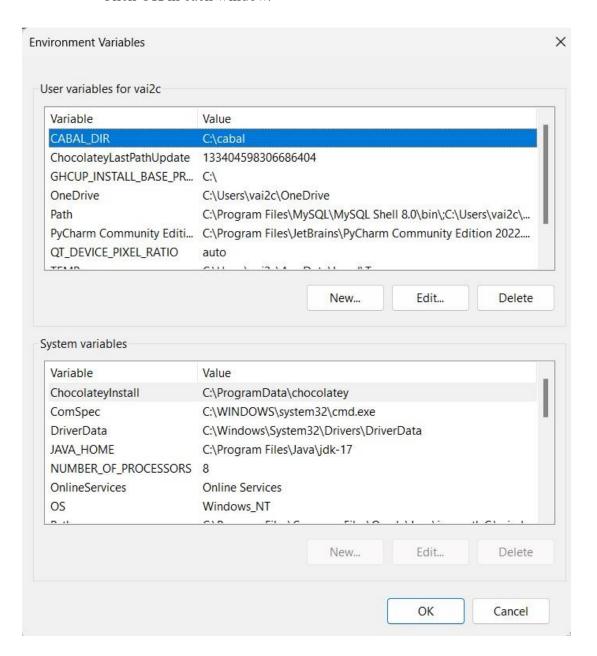
Files will be extracted to this folder:

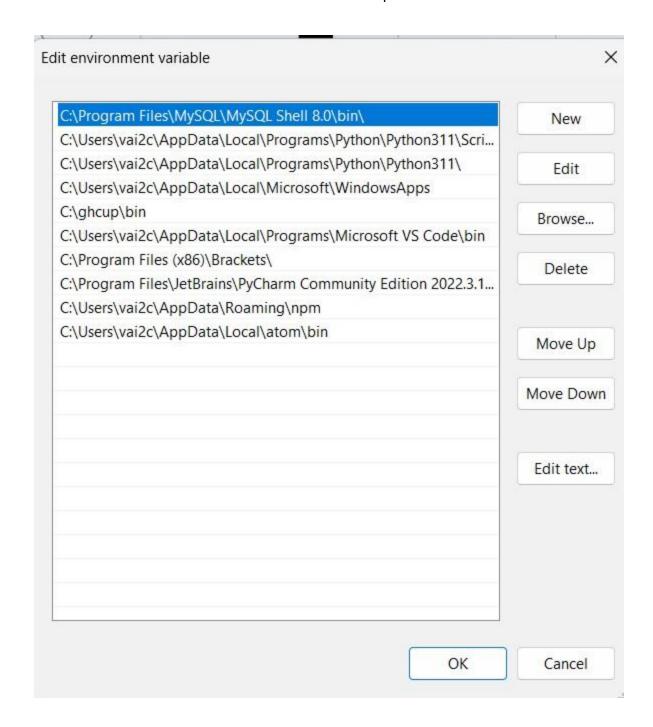
C:\Flutter Browse...

Show extracted files when complete

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.

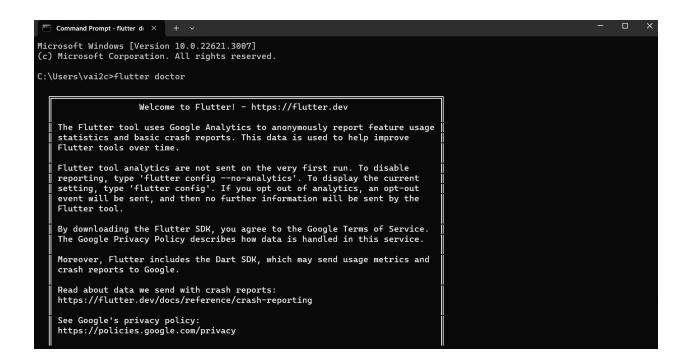




Step 3: Run Flutter Commands

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

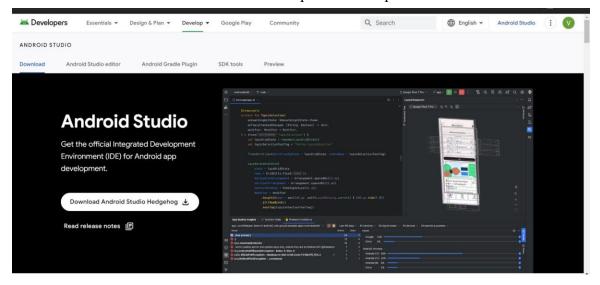
Run flutter doctor to check for any missing dependencies



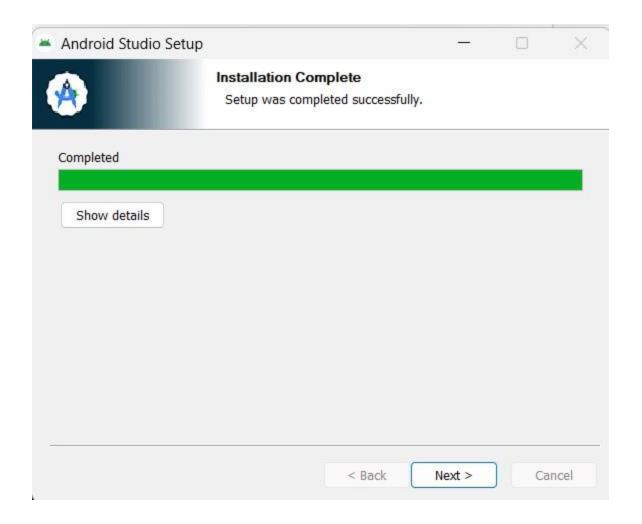
Step 4: Install Android SDK (if needed)

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.

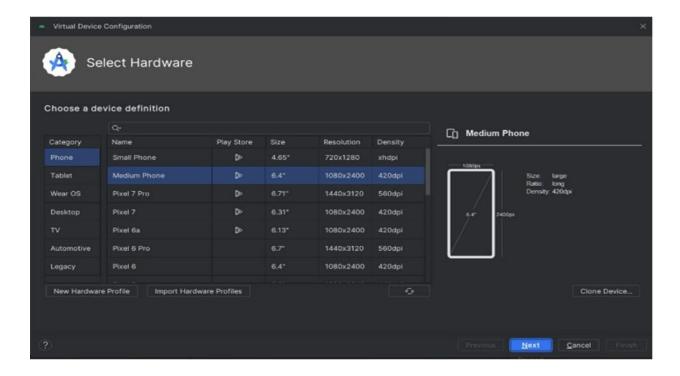




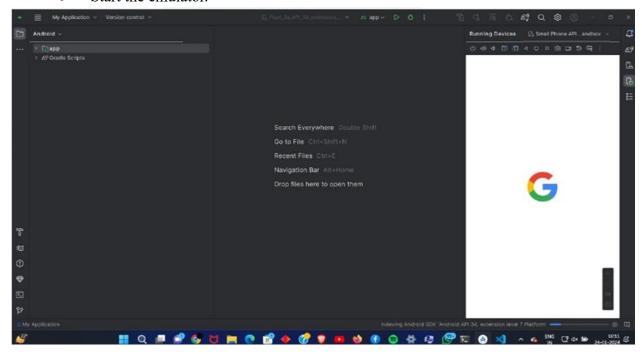


Step 5: Set Up Android Emulator

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



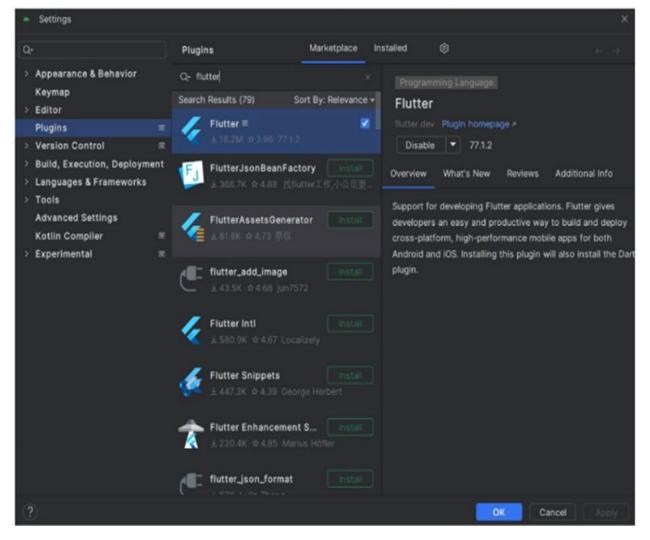
• Start the emulator.

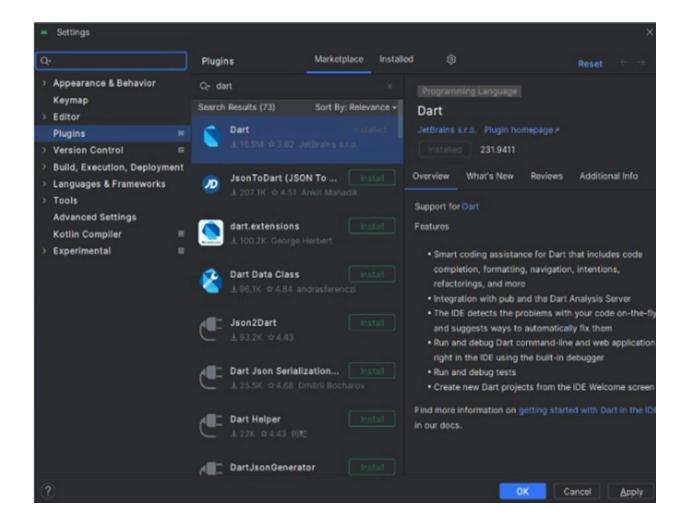


Step 6: Install Flutter and Dart Plugins in Android Studio

• 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.