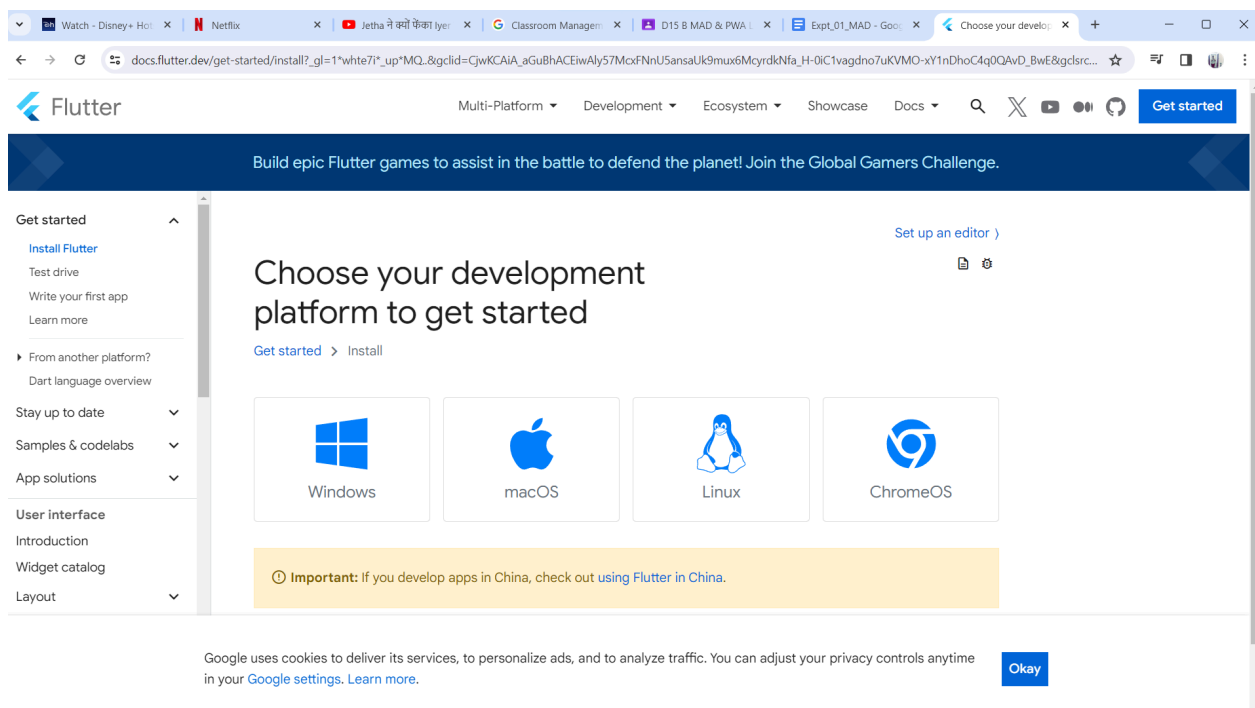# EXP 1: Installation and Configuration of Flutter Environment.

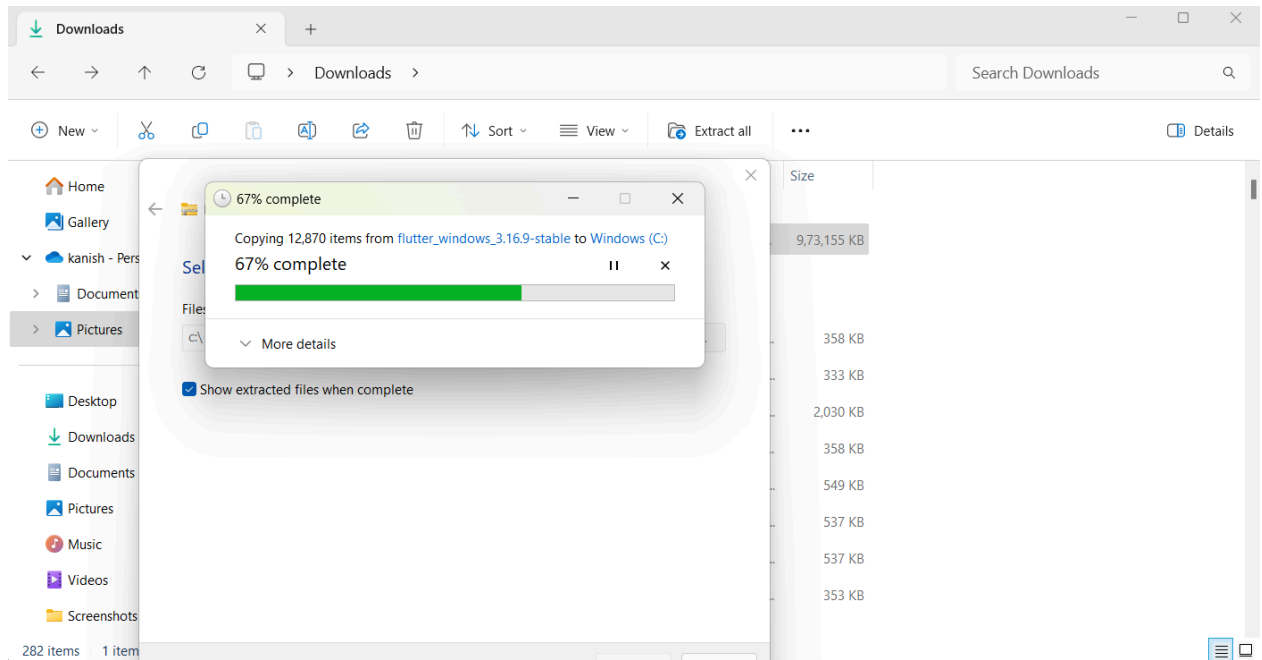**Aim:**

**Theory:**

**Install the Flutter SDK**

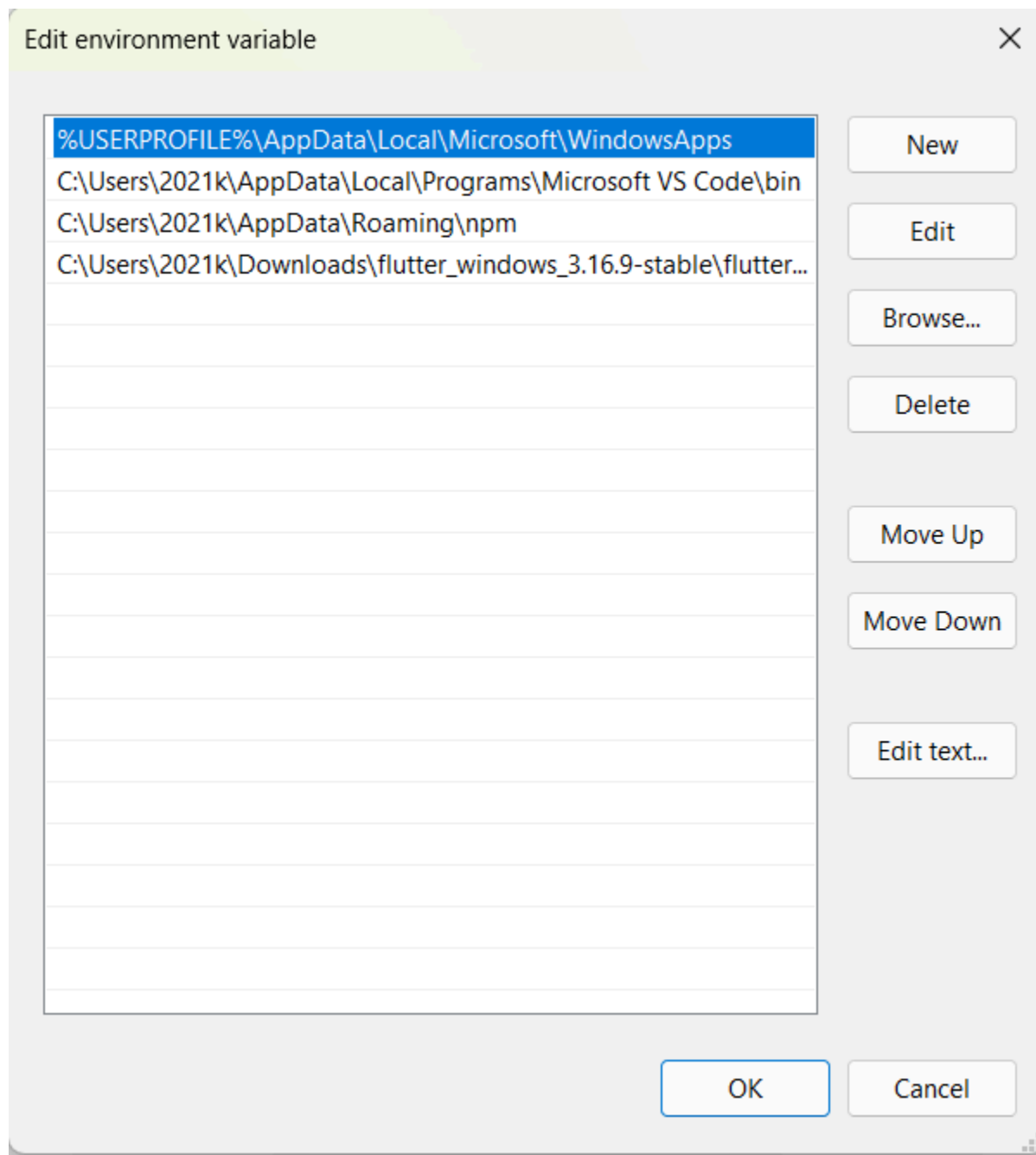**Step 1:** Download the installation bundle of the Flutter Software Development Kit for windows. To download Flutter SDK, Go to its official website https://docs.flutter.dev/get-started/install , you will get the following screen.



**Step 2:** Next, to download the latest Flutter SDK, click on the Windows icon. Here, you will find the download link for SDK.

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

| Edit environment variable | |
|---|---|

**%USERPROFILE%\AppData\Local\Microsoft\WindowsApps**
C:\Users\2021k\AppData\Local\Programs\Microsoft VS Code\bin
C:\Users\2021k\AppData\Roaming\npm
C:\Users\2021k\Downloads\flutter_windows_3.16.9-stable\flutter...

New

Edit

Browse...

Delete

Move Up

Move Down

Edit text...

OK          Cancel

**Step 4:** 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.

```
Command Prompt - flutter                                                    —   □   ✕

Microsoft Windows [Version 10.0.22621.3007]
(c) Microsoft Corporation. All rights reserved.

C:\Users\2021k>flutter
Manage your Flutter app development.

Common commands:

  flutter create <output directory>
    Create a new Flutter project in the specified directory.

  flutter run [options]
    Run your Flutter application on an attached device or in an emulator.

Usage: flutter <command> [arguments]

Global options:
-h, --help                Print this usage information.
-v, --verbose             Noisy logging, including all shell commands executed.
                          If used with "--help", shows hidden options. If used with "flutter doctor", shows additional
                          diagnostic information. (Use "-vv" to force verbose logging in those cases.)
-d, --device-id           Target device id or name (prefixes allowed).
    --version             Reports the version of this tool.
    --enable-analytics    Enable telemetry reporting each time a flutter or dart command runs.
    --disable-analytics   Disable telemetry reporting each time a flutter or dart command runs, until it is
                          re-enabled.
    --suppress-analytics  Suppress analytics reporting for the current CLI invocation.

Available commands:
```

**Step 5:** When you run the above command, it will analyze the system and show its report, as shown in the below image. Here, you will find the details of all missing tools, which required to run Flutter as well as the development tools that are available but not connected with the device.



```
information will be sent. This data is collected in accordance with the Google
Privacy Policy (https://policies.google.com/privacy).


C:\Users\2021k>flutter doctor
Found an existing Pub cache at C:\Users\2021k\AppData\Local\Pub\Cache.
It can be repaired by running `dart pub cache repair`.
It can be reset by running `dart pub cache clean`.
Doctor summary (to see all details, run flutter doctor -v):
[√] Flutter (Channel stable, 3.16.9, on Microsoft Windows [Version 10.0.22621.3007], locale en-IN)
[√] Windows Version (Installed version of Windows is version 10 or higher)
[X] Android toolchain - develop for Android devices
    X Unable to locate Android SDK.
      Install Android Studio from: https://developer.android.com/studio/index.html
      On first launch it will assist you in installing the Android SDK components.
      (or visit https://flutter.dev/docs/get-started/install/windows#android-setup for detailed instructions).
      If the Android SDK has been installed to a custom location, please use
      `flutter config --android-sdk` to update to that location.

[√] Chrome - develop for the web
[!] Visual Studio - develop Windows apps (Visual Studio Build Tools 2019 16.11.31)
    X The current Visual Studio installation is incomplete.
      Please use Visual Studio Installer to complete the installation or reinstall Visual Studio.
[!] Android Studio (not installed)
[√] VS Code (version 1.83.1)
[√] Connected device (3 available)
[√] Network resources

! Doctor found issues in 3 categories.
```
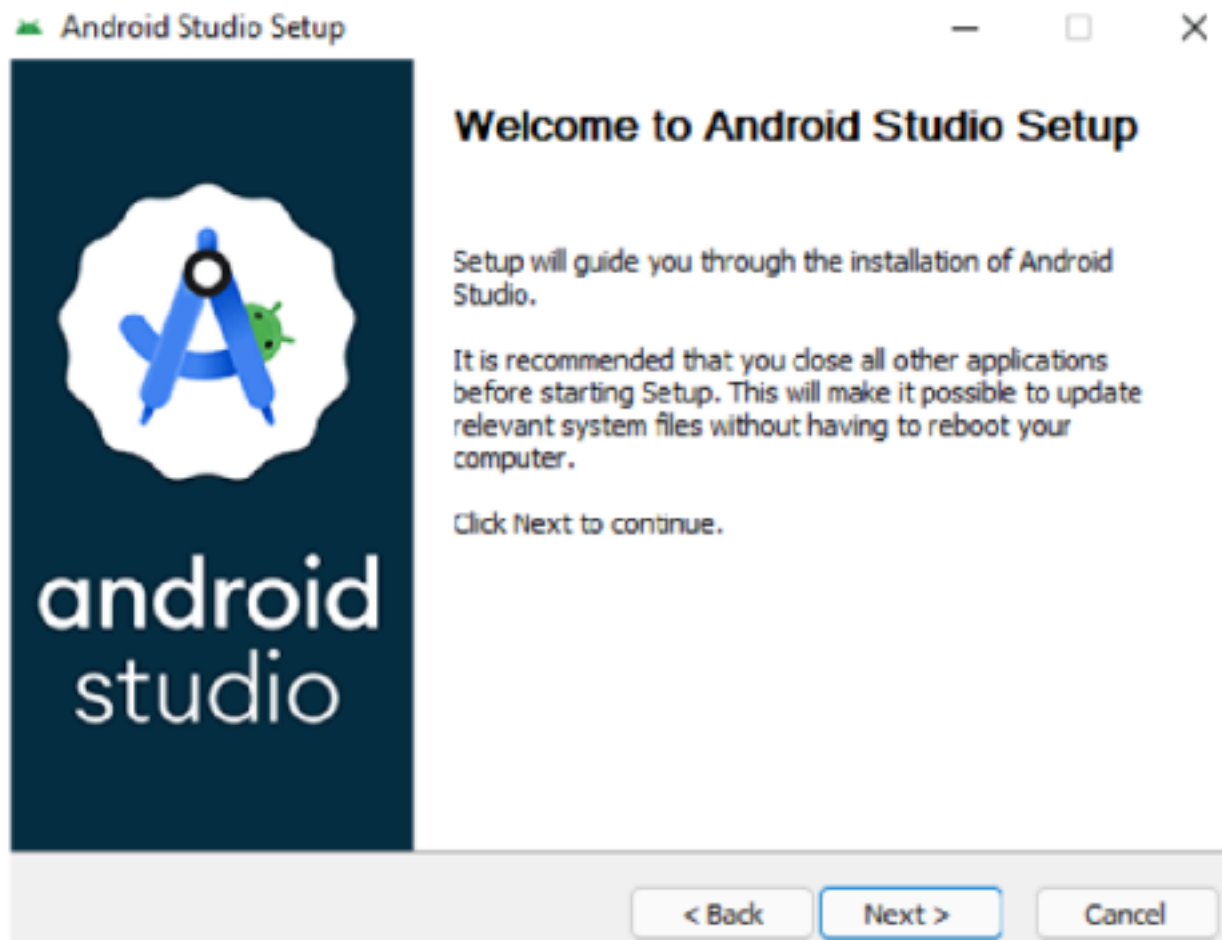
## ANDROID STIUDIO
**Step 1 :** Install the Android SDK. If the flutter doctor command does not find the Android SDK tool in your system, then you need first to install the Android Studio IDE. To install Android
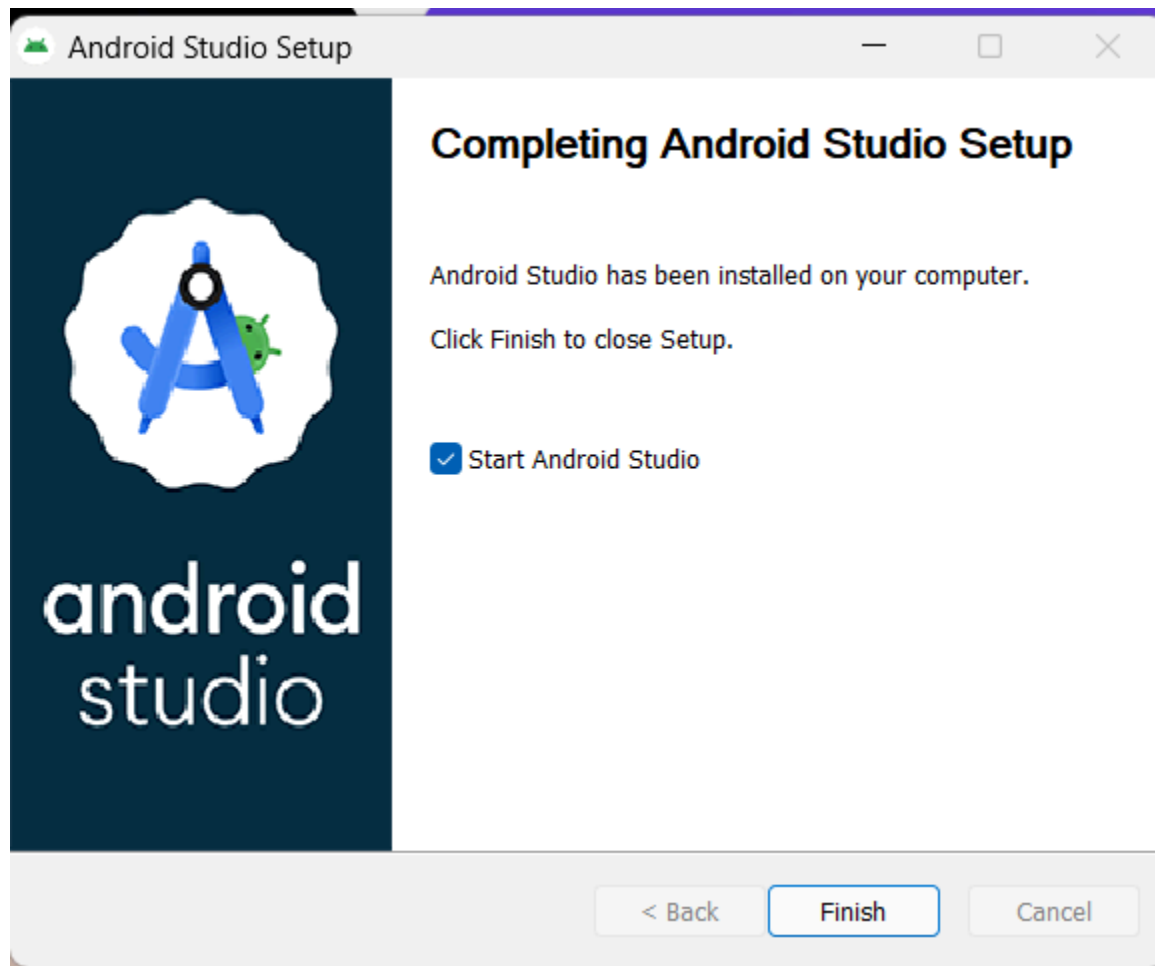
Studio IDE, do the following steps.

**Step 1.1:** Download the latest Android Studio executable or zip file from the official site.

**Step 1.2:** When the download is complete, open the .exe file and run it. You will get the following dialog box.
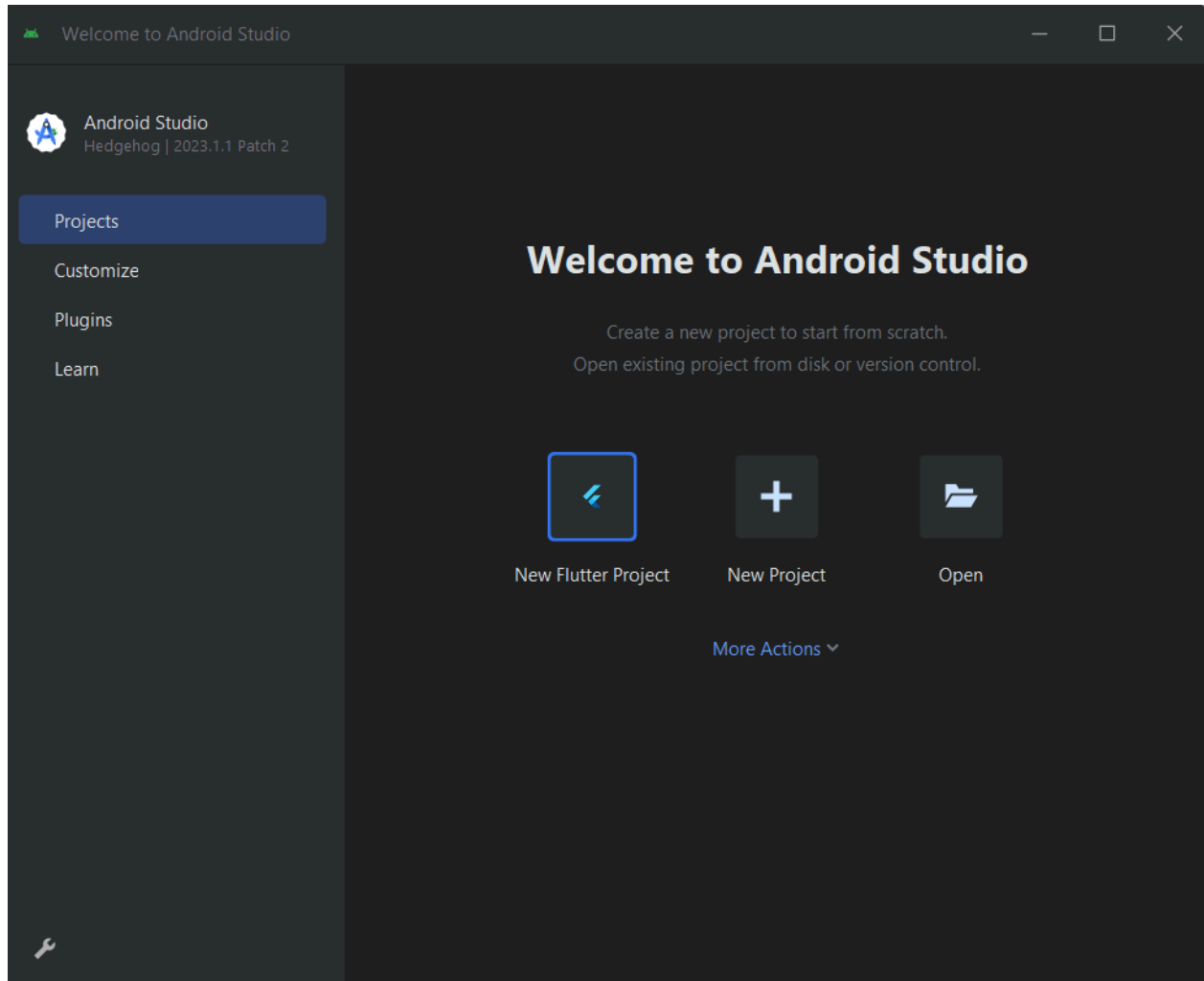


**Step7.3**: Followthestepsofthe installationwizard. Oncethe installationwizardcompletes, you will getthefollowingscreen.

**Step 7.4:** In the above screen, click Next-> Finish. Once the Finish button is clicked, you need to

choose the 'Don't import Settings option' and click OK. It will start the Android Studio.

Final step

**Conclusion: we have successfully installed Flutter and Android studio**