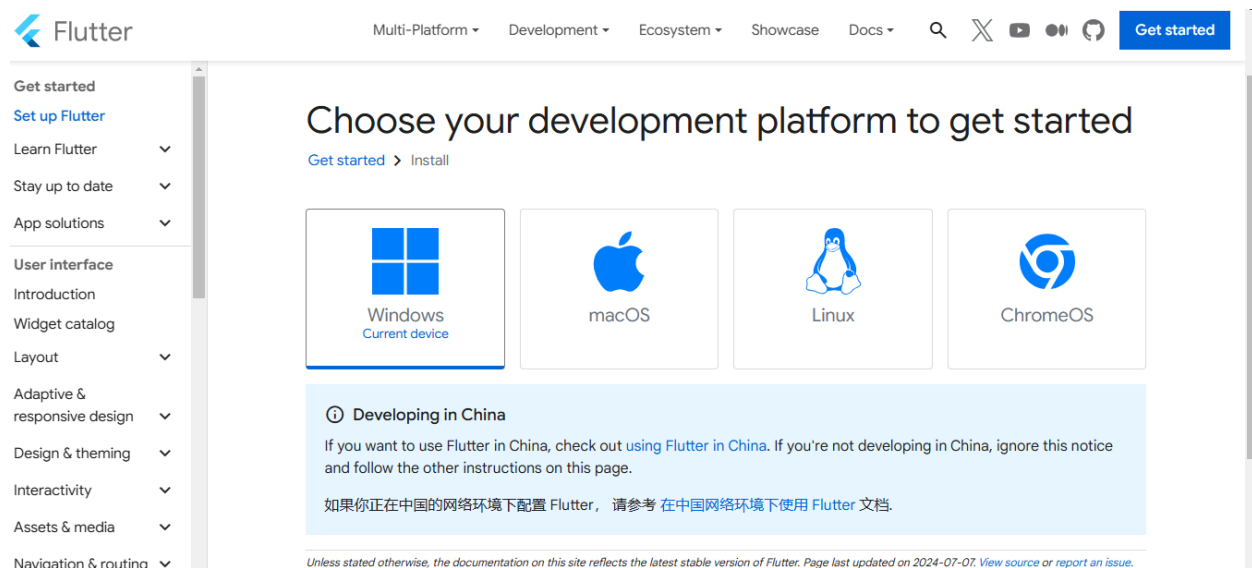


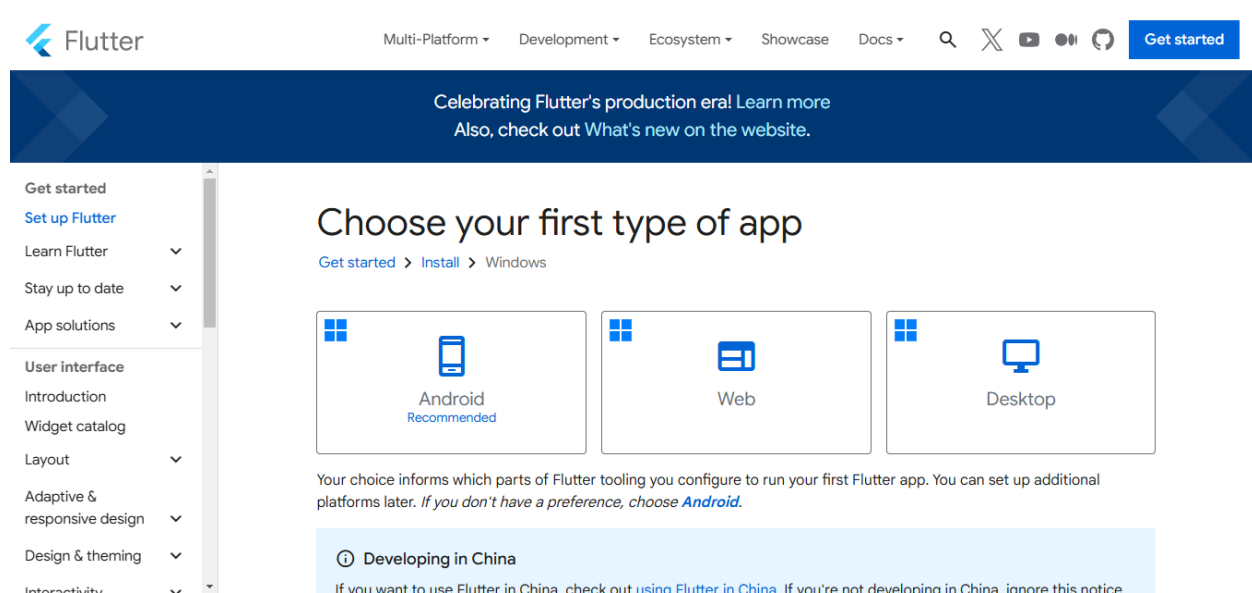
MPL Experiment 1

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)

Select a Destination and Extract Files

Files will be extracted to this folder:

C:\Users\Ria Chaudhari\Downloads\flutter_windows_3.27.3-stable

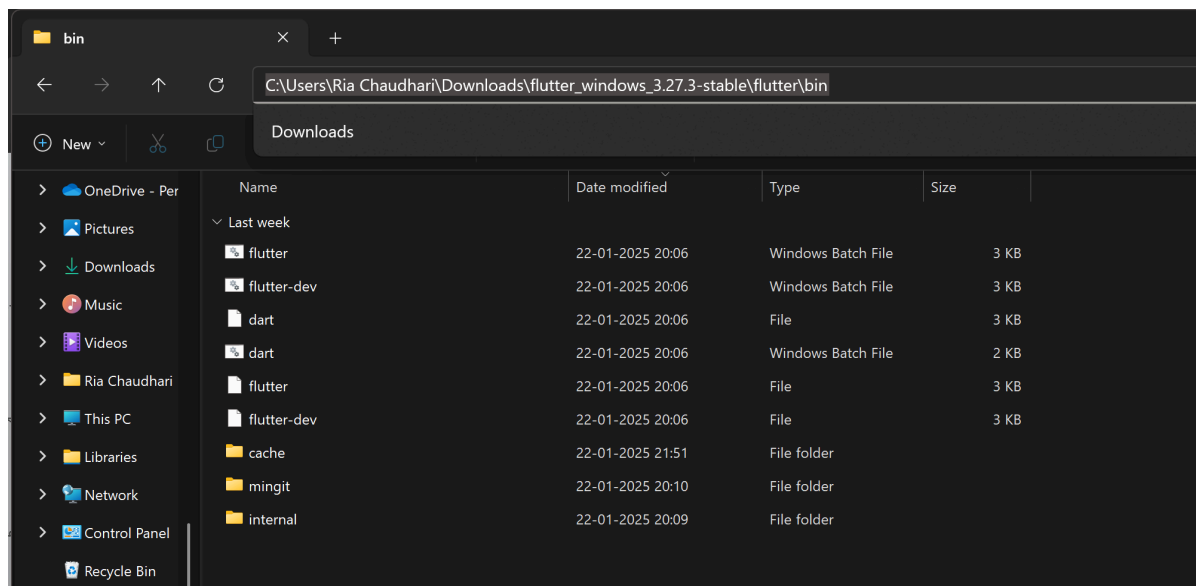
Browse...

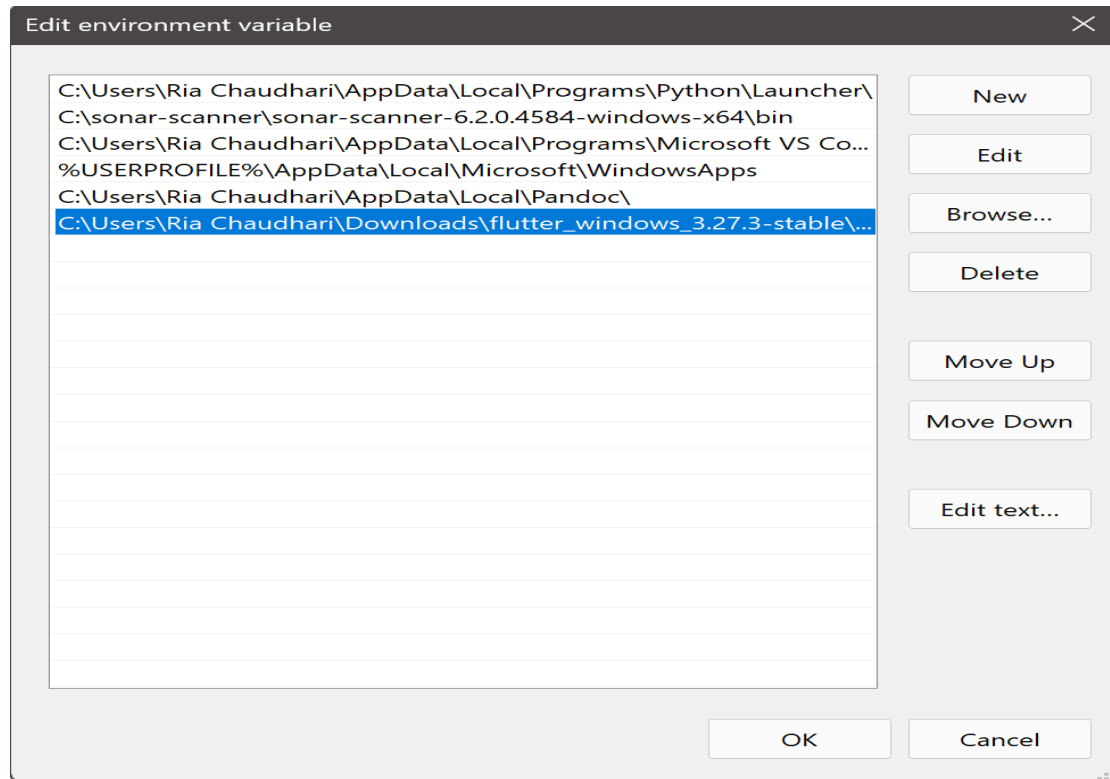
☒ Show extracted files when complete

Extract

Cancel

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

```
C:\Users\Ria Chaudhari>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:
```

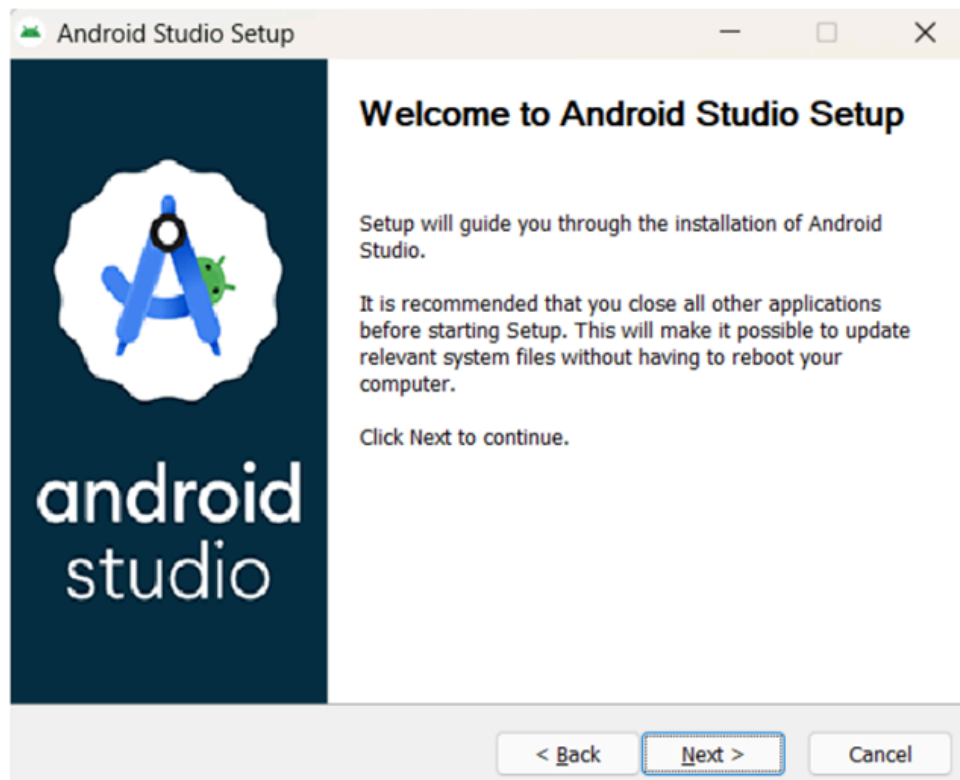
Step 7:- Run the \$ flutter doctor command. This command checks for all the requirements of Flutter app development and displays a report of the status of your Flutter installation

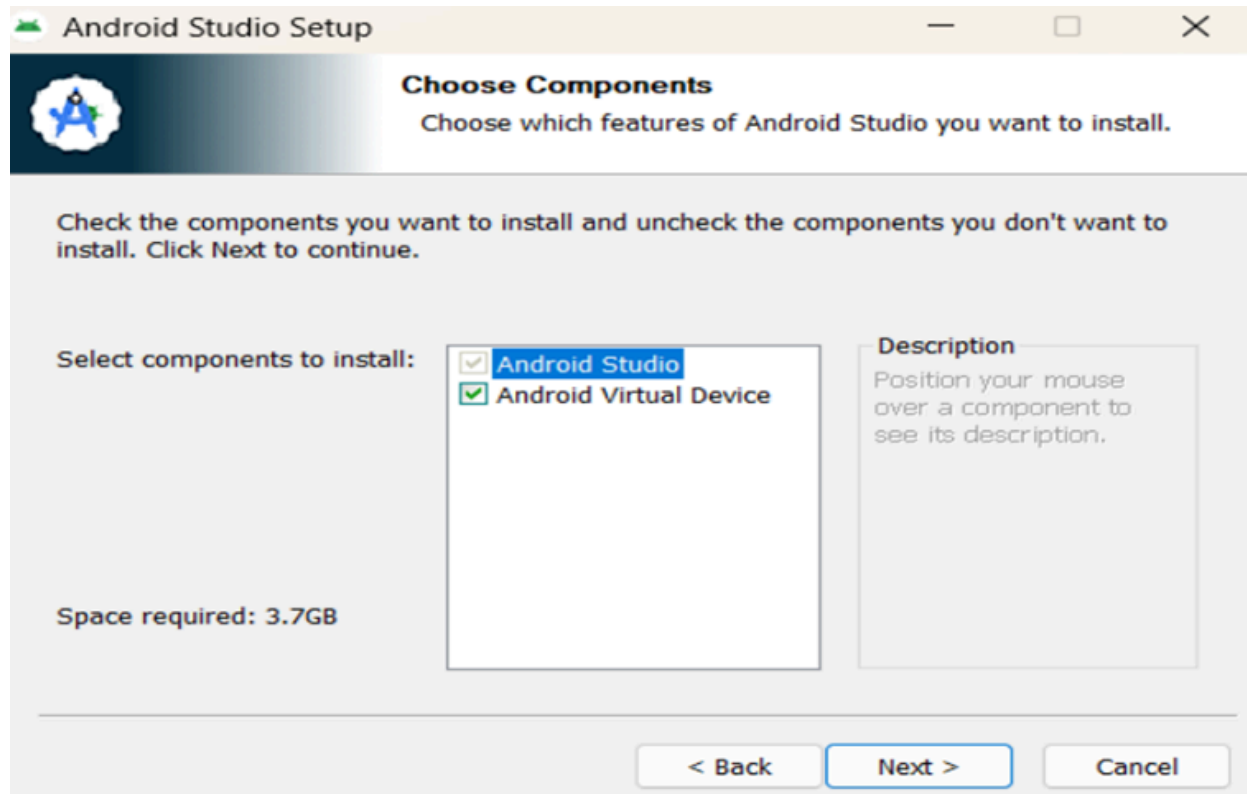
```
C:\Users\Ria Chaudhari>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.27.3, on Microsoft Windows [Version 10.0.26100.2894], locale en-IN)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[✓] Android toolchain - develop for Android devices (Android SDK version 35.0.1)
[✓] Chrome - develop for the web
[X] Visual Studio - develop Windows apps
    X Visual Studio not installed; this is necessary to develop Windows apps.
      Download at https://visualstudio.microsoft.com/downloads/.
      Please install the "Desktop development with C++" workload, including all of its default components
[✓] Android Studio (version 2024.2)
[✓] IntelliJ IDEA Ultimate Edition (version 2024.2)
[✓] VS Code (version unknown)
    X Unable to determine VS Code version.
[✓] Connected device (3 available)
[✓] Network resources

! Doctor found issues in 1 category.
```

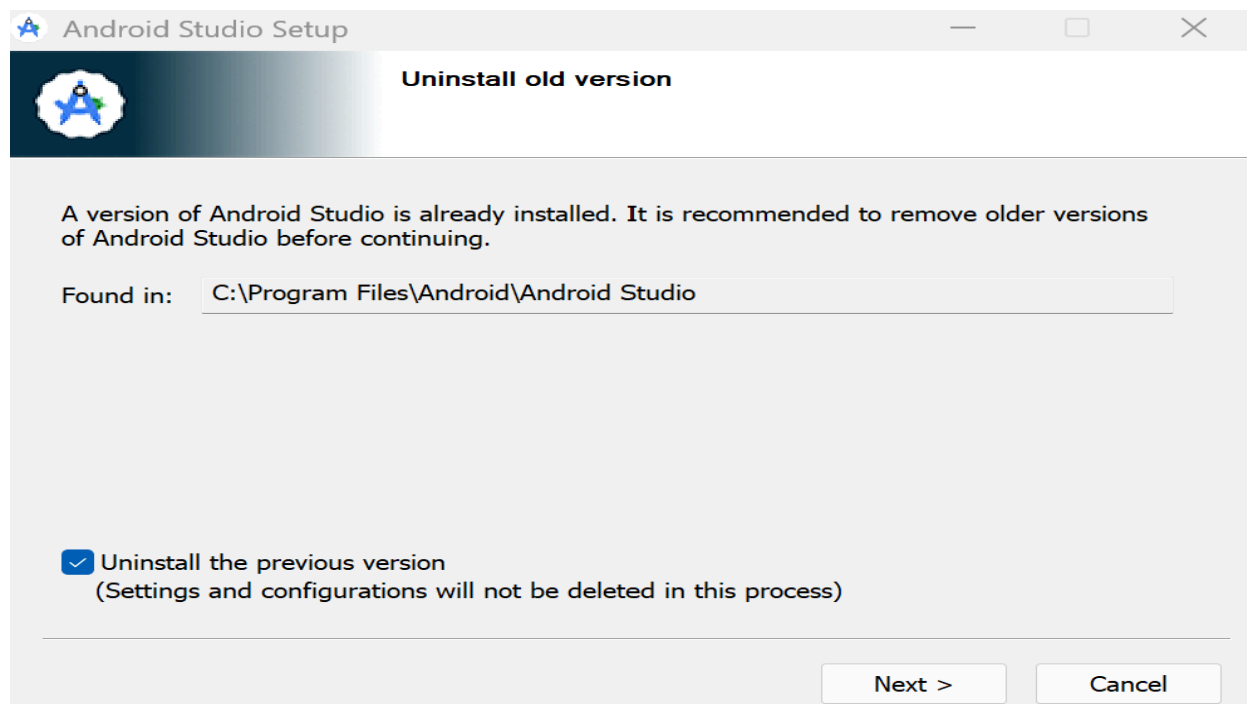
Step 8 : - Go to Android Studio and download the installer

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

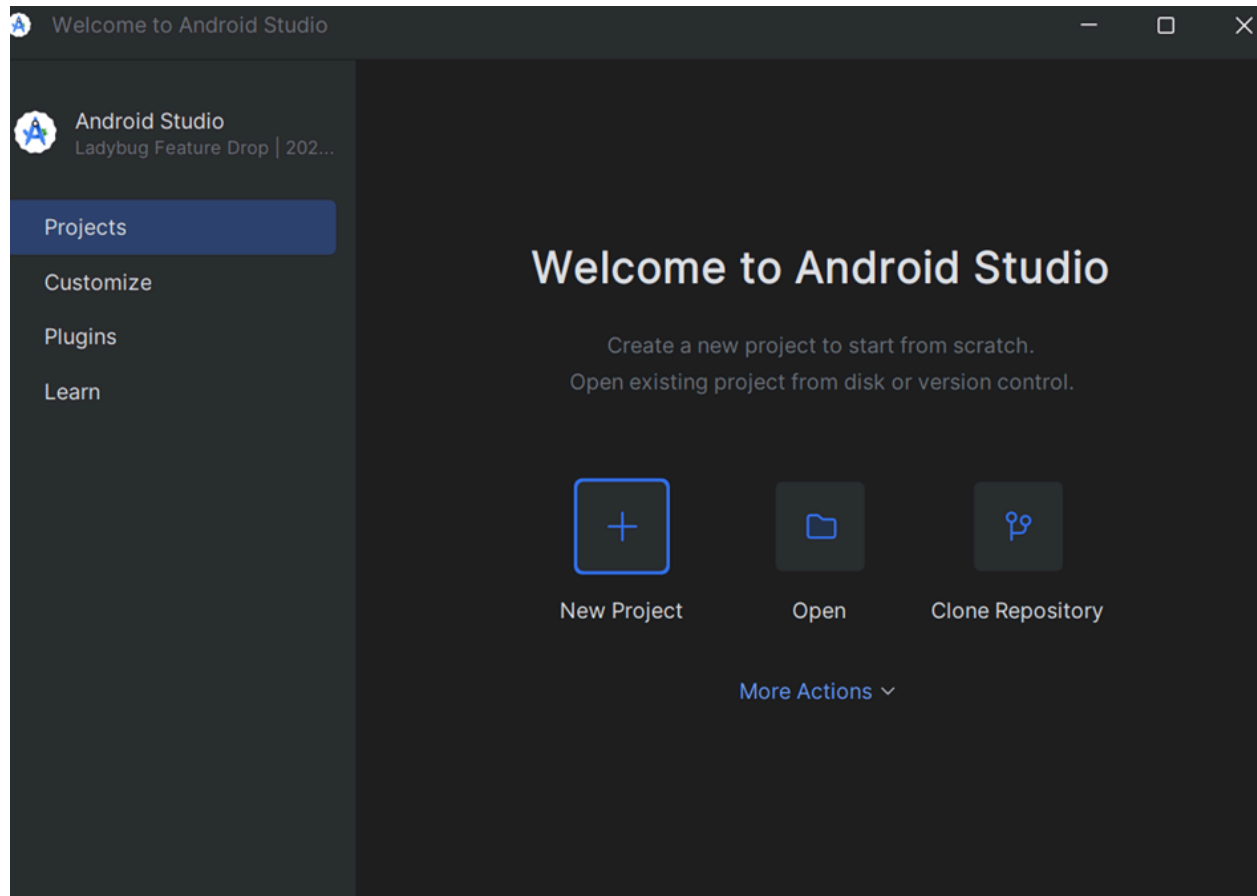




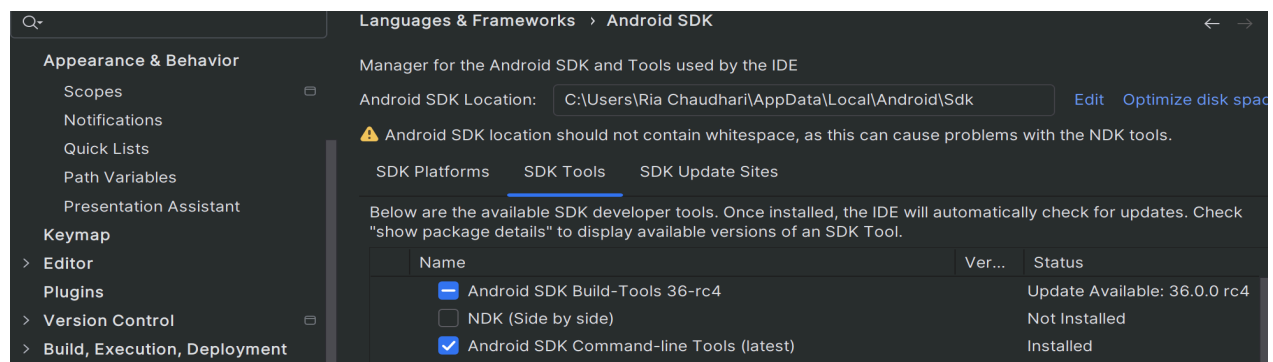
Step 8.3: - Change the destination as per your convenience and click on 'Next' Button.



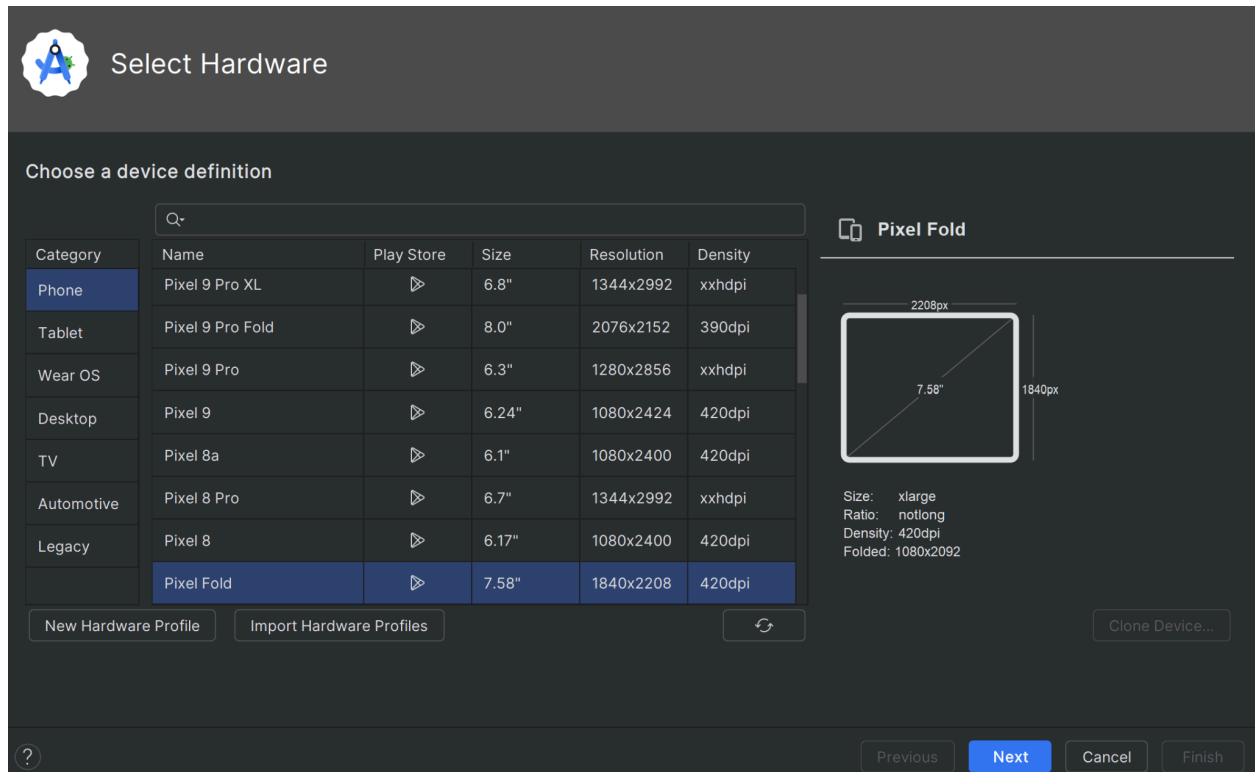
Step 8.4: - Follow the steps of the installation wizard. Once the installation wizard completes, you will get the following screen.



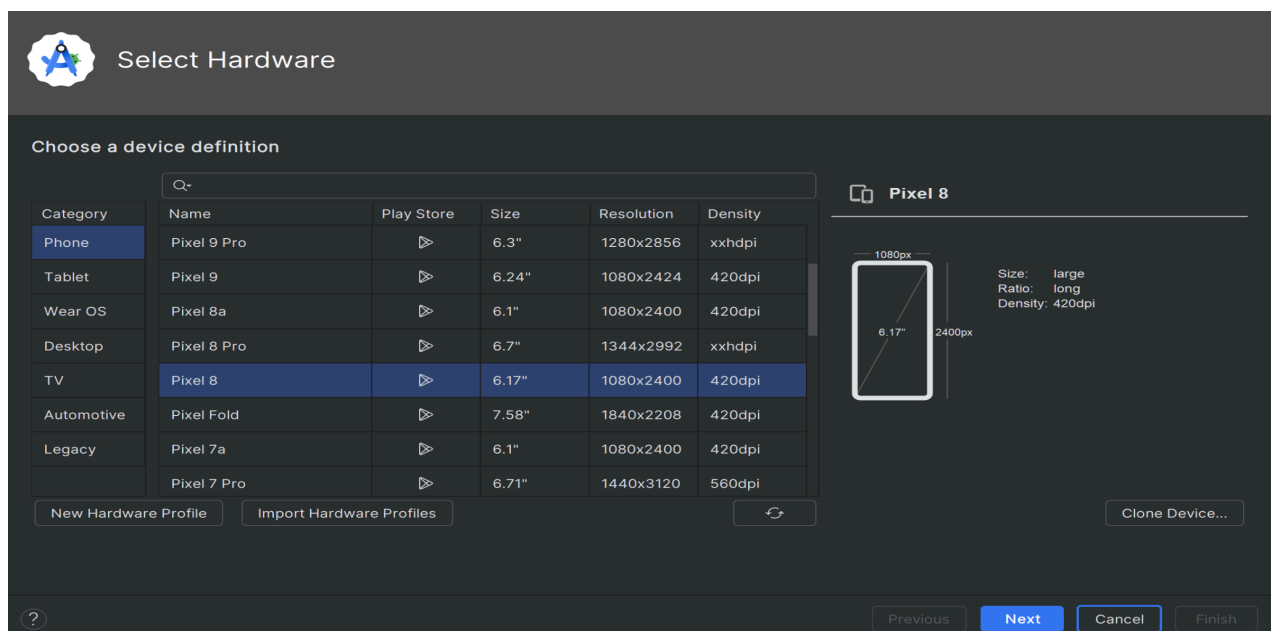
Step 8.5: - Go to Preferences > Appearance & Behavior > System Settings > Android SDK. Select the SDK Tools tab and check Android SDK Command-line Tools and Install it.

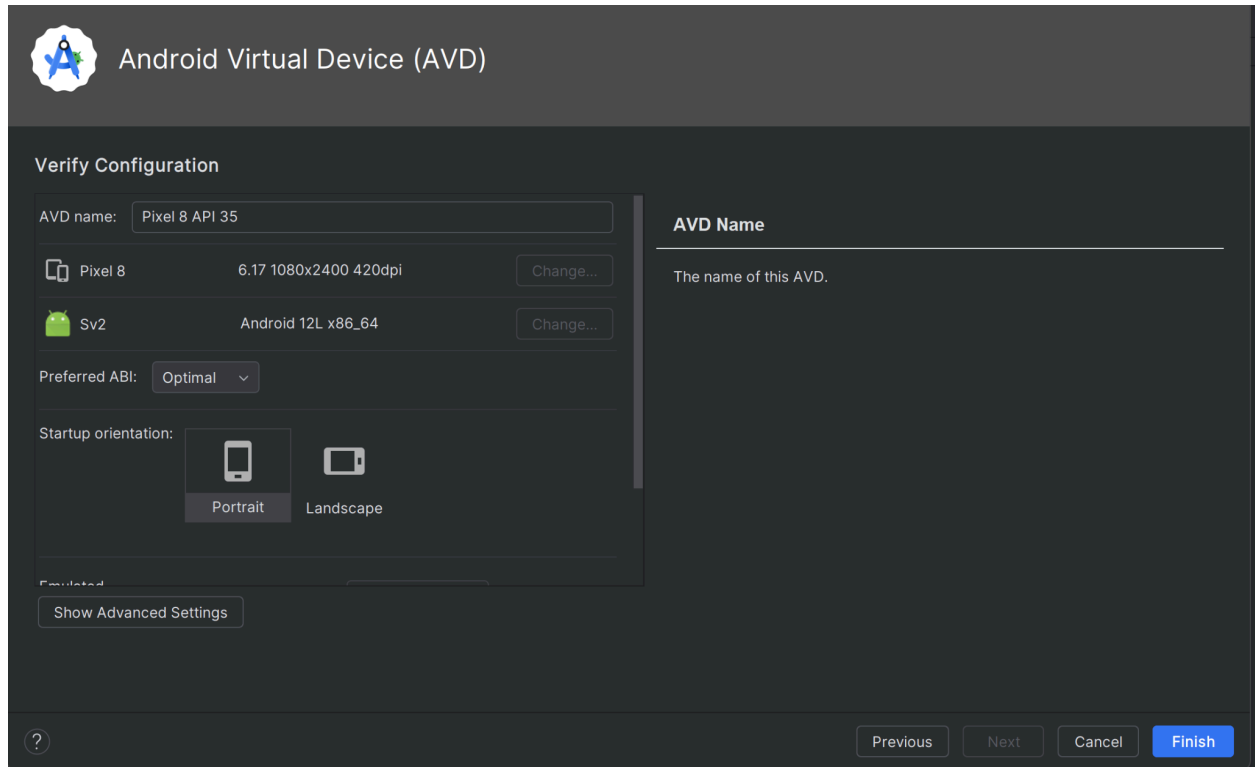


Step 10: - Next, you need to set up an Android emulator. It is responsible for running and testing the Flutter application

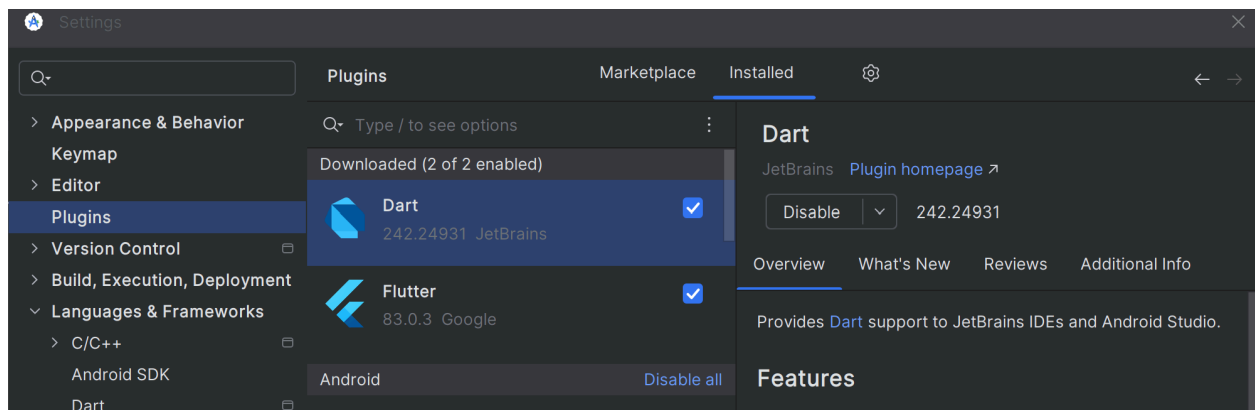


Step 10.1: - Open Android Studio and go to Tools > AVD Manager. Create a new virtual device.





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



```
main.dart x  README.md
1  import 'package:flutter/material.dart';
2
3  void main() {
4    runApp(const MyApp());
5  }
6
7  class MyApp extends StatelessWidget {
8    const MyApp({super.key});
9
10
11   @override
12   Widget build(BuildContext context) {
13     return MaterialApp(
14       home: Scaffold(
15         appBar: AppBar(
16           title: Text('My App'),
17         ), // AppBar
18         body: const Center(
19           child: Text(
20             'Hello, Ria!',
21             style: TextStyle(fontSize: 24),
22           ), // Text
23         ), // Center
24       ), // Scaffold
25     ); // MaterialApp
26   }
27
28
```

