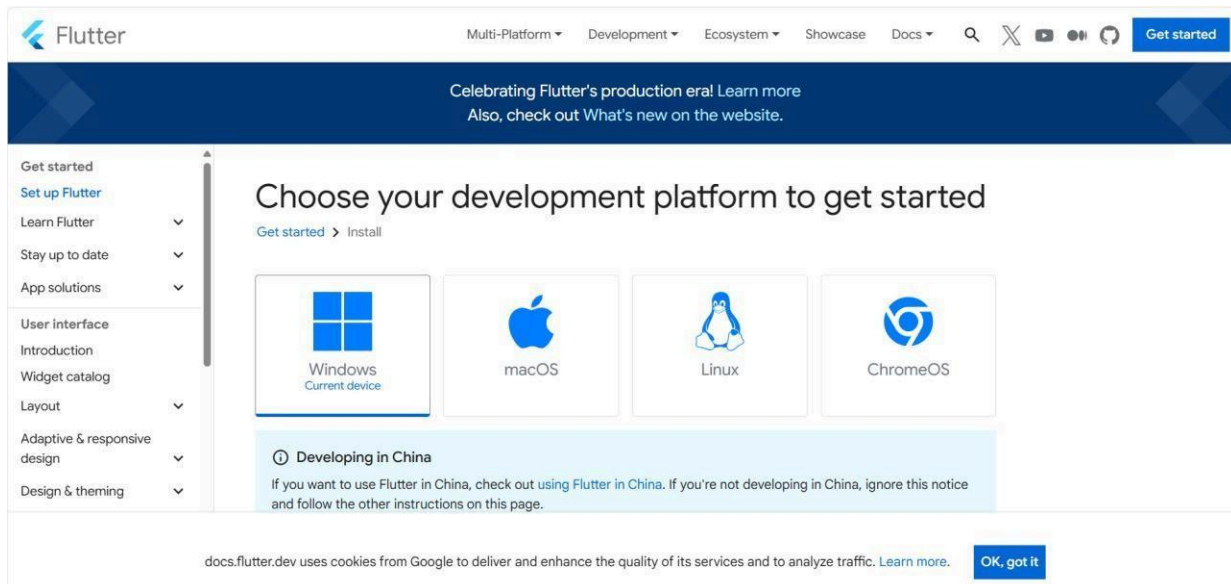
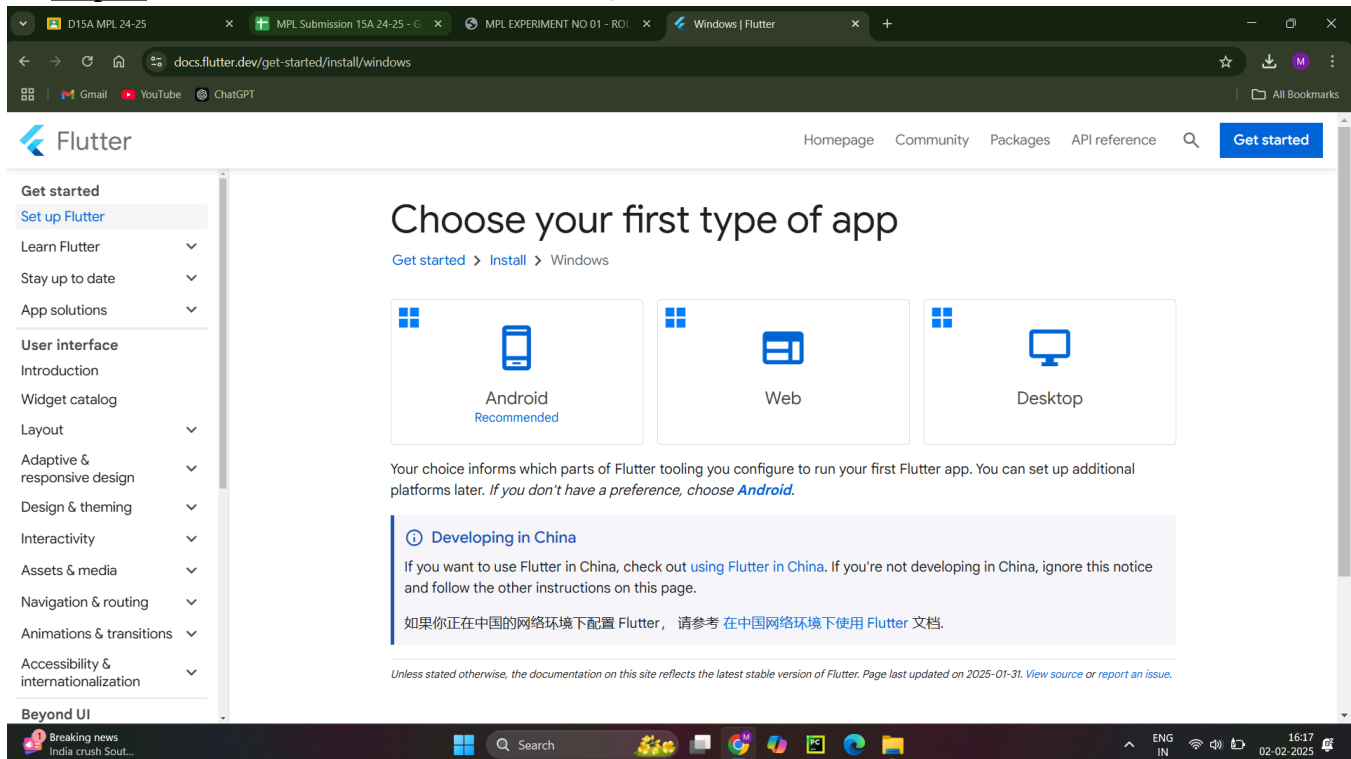


EXPERIMENT NO: - 01**Name:-** Manav Punjabi**Class:-** D15A**Roll:No:-** 44**AIM:-** Installation and Configuration of Flutter Environment.**Step 1:** Go to the official Flutter website: <https://docs.flutter.dev/get-started/install>**Step 2:** To download the latest Flutter SDK, click on the Windows icon > Android

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

The screenshot shows the Flutter website's 'Install the Flutter SDK' page for Windows. The page is titled 'Install the Flutter SDK #' and provides instructions on how to install the Flutter SDK. It includes a 'Download and install' button and a 'Download then install Flutter' section. The 'Download then install Flutter' section lists two steps: 1. Download the following installation bundle to get the latest stable release of the Flutter SDK. 2. Create a folder where you can install Flutter. The first step includes a link to the 'flutter_windows_3.27.3-stable.zip' file. The second step includes instructions on where to create the folder, mentioning the Windows default download directory and the local app data directory. The page also features a 'Contents' sidebar on the right with links to various Flutter documentation topics.

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

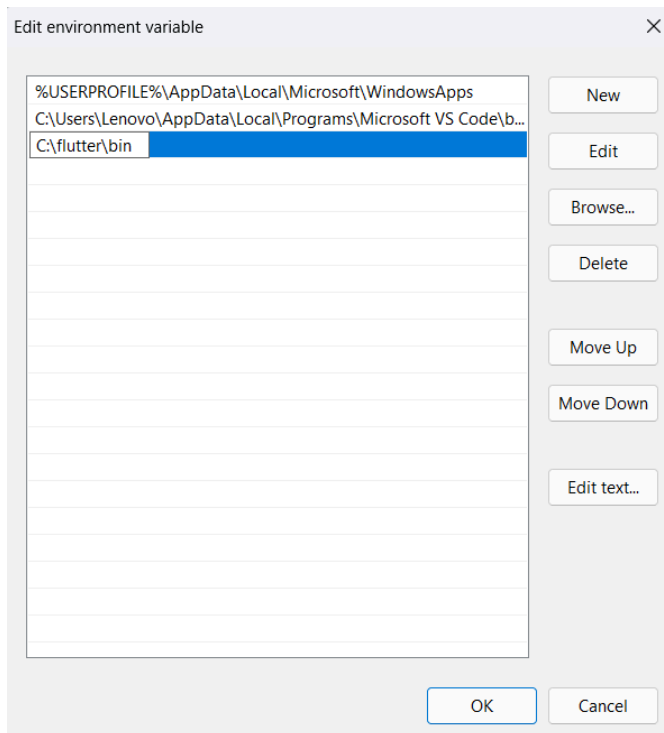
The screenshot shows the 'Extract Compressed (Zipped) Folders' dialog box. The dialog has a title bar with a close button. Below the title bar, there is a section titled 'Select a Destination and Extract Files'. It states 'Files will be extracted to this folder:' followed by a text input field containing 'C:\' and a 'Browse...' button. Below this, there is a checkbox labeled 'Show extracted files when complete' which is checked. At the bottom of the dialog, there are two buttons: 'Extract' and '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:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22631.4602]
(c) Microsoft Corporation. All rights reserved.

C:\flutter\src\flutter\bin>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

Run "flutter help <command>" for more information about a command.
Run "flutter help -v" for verbose help output, including less commonly used options.

```

Welcome to Flutter! - https://flutter.dev

The Flutter tool uses Google Analytics to anonymously report feature usage
statistics and basic crash reports. This data is used to help improve
Flutter tools over time.

Flutter tool analytics are not sent on the very first run. To disable
reporting, type 'flutter config --no-analytics'. To display the current
setting, type 'flutter config'. If you opt out of analytics, an opt-out
event will be sent, and then no further information will be sent by the
Flutter tool.

By downloading the Flutter SDK, you agree to the Google Terms of Service.
The Google Privacy Policy describes how data is handled in this service.

Moreover, Flutter includes the Dart SDK, which may send usage metrics and
crash reports to Google.

Read about data we send with crash reports:
https://flutter.dev/to/crash-reporting

See Google's privacy policy:
https://policies.google.com/privacy

To disable animations in this tool, use
'flutter config --no-cli-animations'.
```

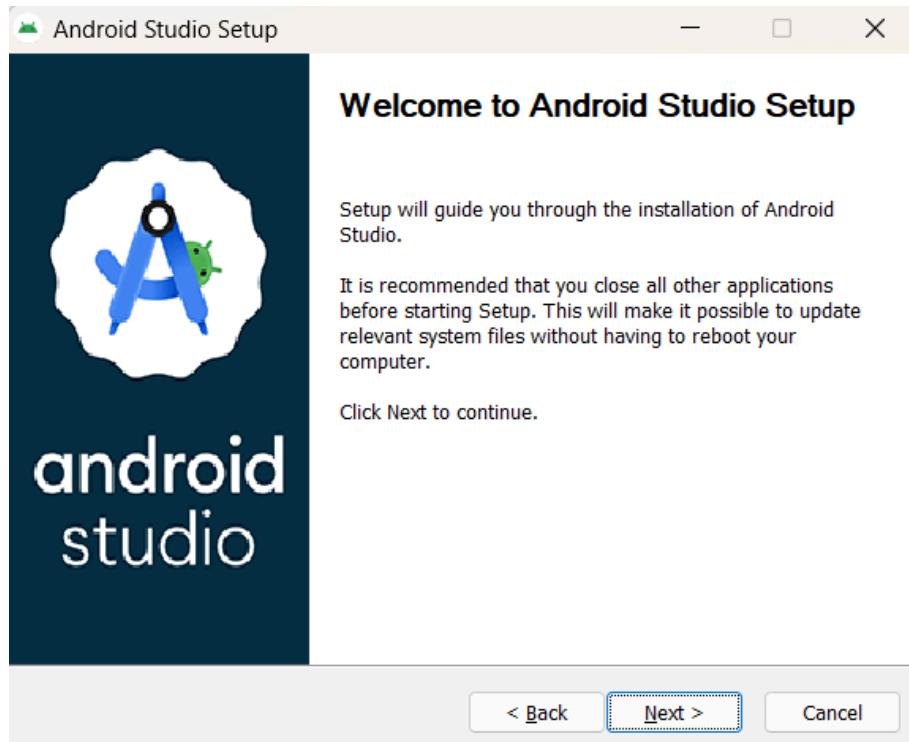
The Flutter CLI developer tool uses Google Analytics to report usage and diagnostic

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

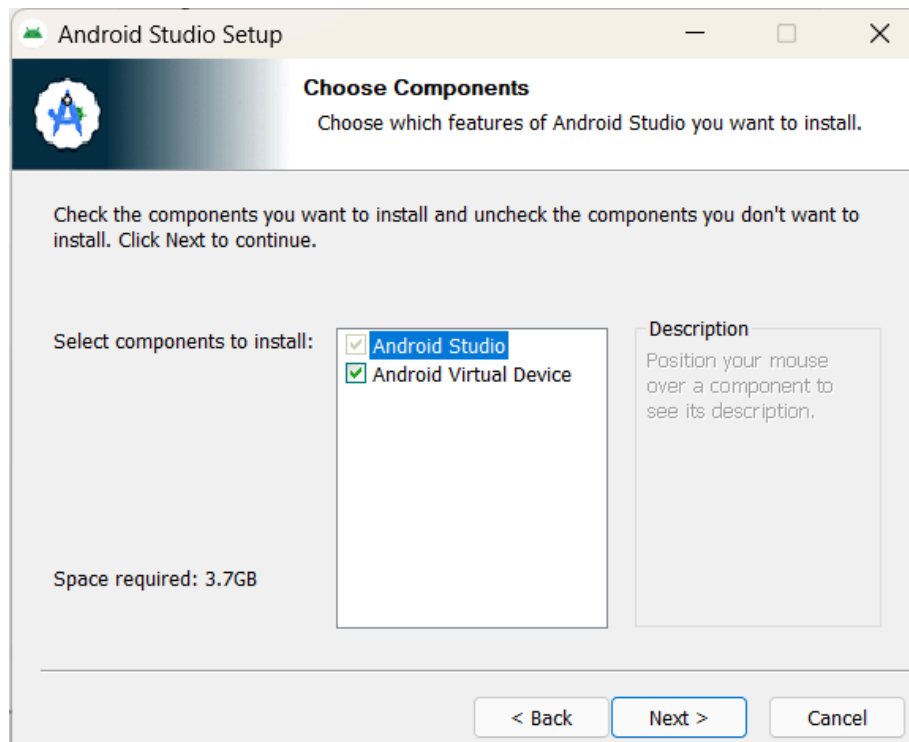
Platform	Android Studio package	Size	SHA-256 checksum
Windows (64-bit)	android-studio-2024.2.2.13-windows.exe Recommended	1.2 GB	7d93dd9bf3539f948f609b1968507bf1f502bf6965d2d44bd38a17ff26cb5dd3e
Windows (64-bit)	android-studio-2024.2.2.13-windows.zip No .exe installer	1.2 GB	855945962ff9b84ea49ce39de0bf4189dbf451ae37a6fab7999da013b046b7f7
Mac (64-bit)	android-studio-2024.2.2.13-mac.dmg	1.3 GB	acfbbe54d6ce8cf21f19b43510c7addcb9dde2824282f205fd1331be77d2e613
Mac (64-bit, ARM)	android-studio-2024.2.2.13-mac_arm.dmg	1.3 GB	688f8d007e612f3f0c18f316179079dc4565f93d8d1e6a7dad80c4cfce356df7
Linux (64-bit)	android-studio-2024.2.2.13-linux.tar.gz	1.3 GB	b7feted4a7959bdaca7a8fd57461dbbf9a205eb23cc218ed82ed88e8b998cb5
ChromeOS	android-studio-2024.2.2.13-cros.deb	1.0 GB	51fddc08b74ba205aee75dd1a7a85f7604b88b5a50b6b884125e9ef22a7107e0

More downloads are available in the [download archives](#). For Android Emulator downloads, see the [Emulator download archives](#).

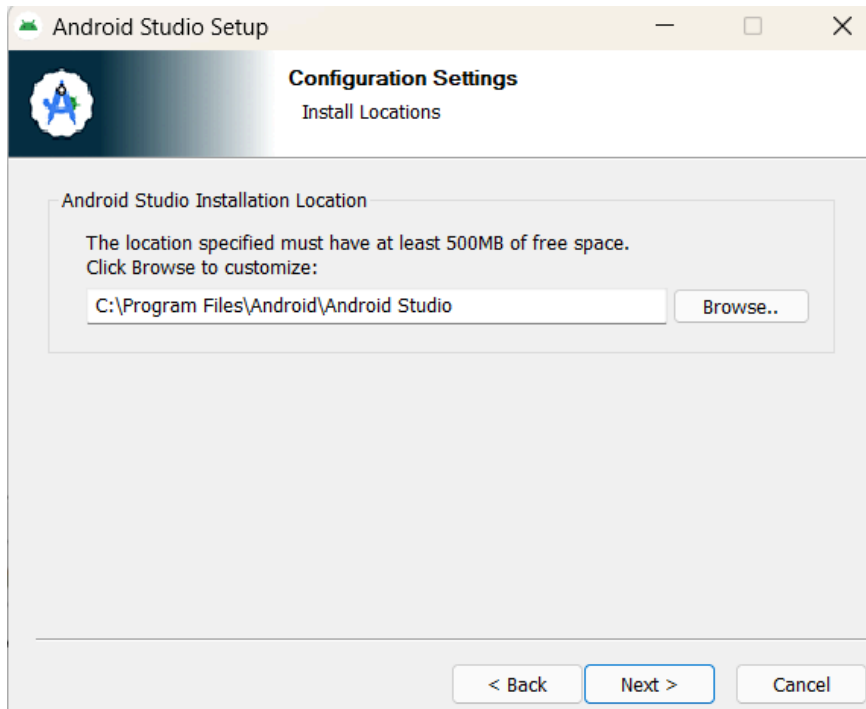
Step 8.1: - When the download is complete, open the .exe file and run it. You will get the following dialog box



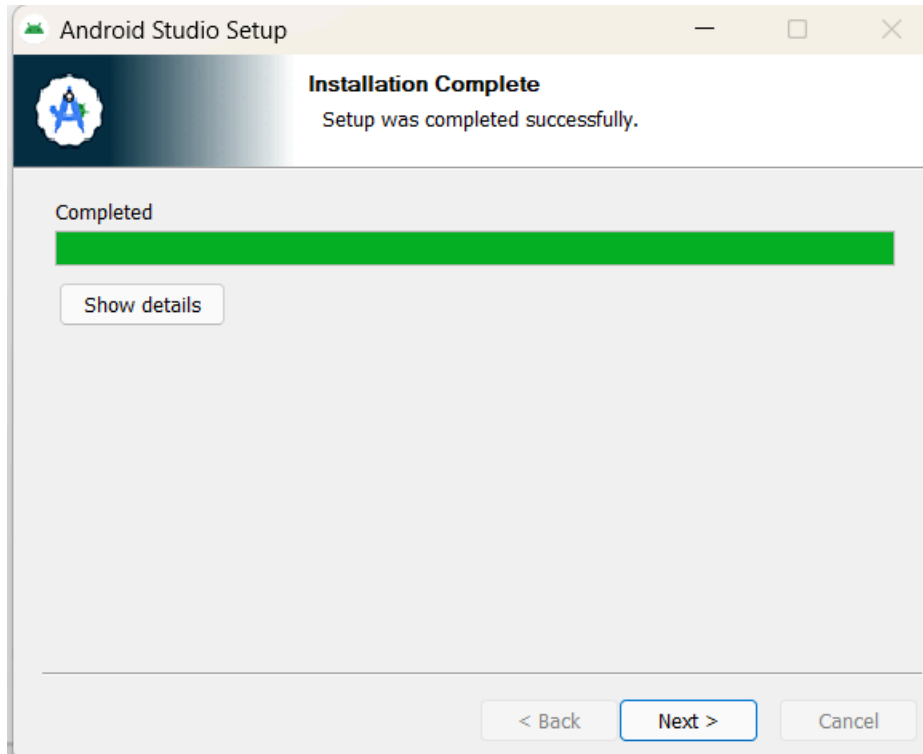
Step 8.2: - Select all the Checkboxes and Click on 'Next' Button.

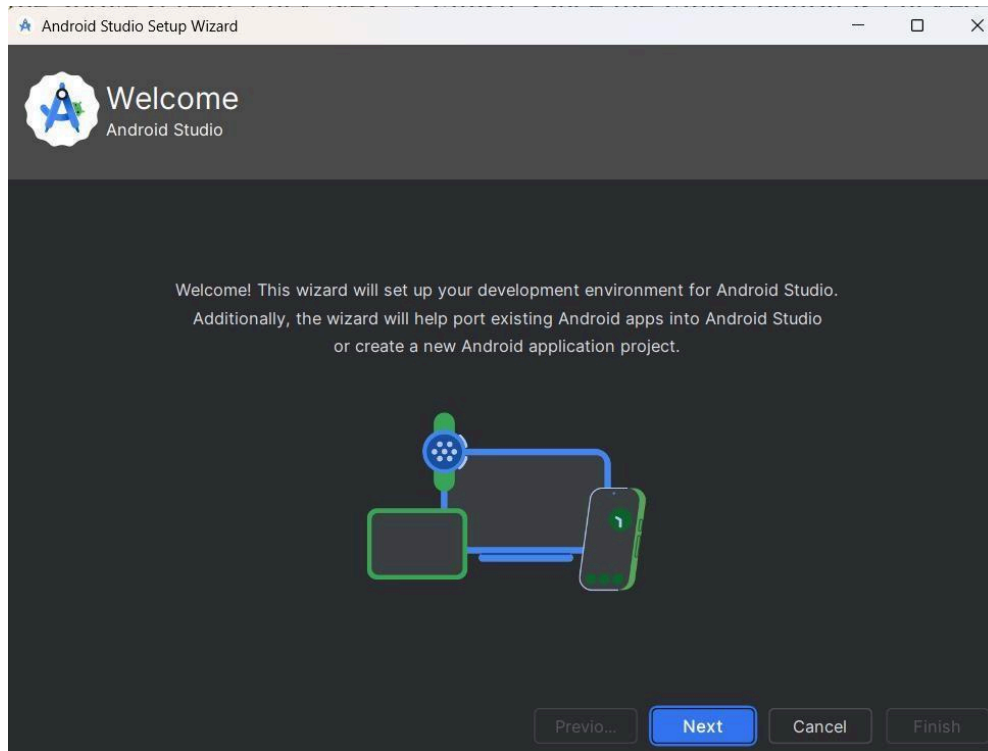


Step 8.3: - Change the destination as per your convenience and click on 'Next' Button.



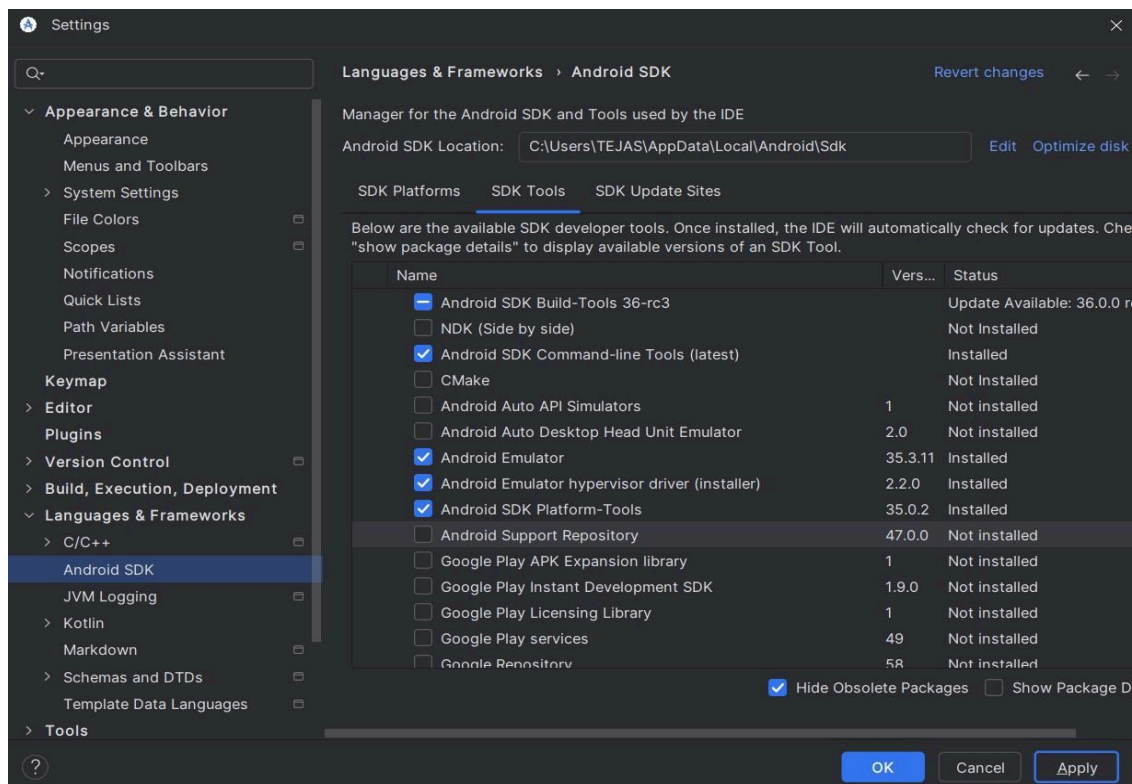
Step 8.4: - Follow the steps of the installation wizard. Once the installation wizard completes, you will get the following screen.





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

```

C:\Users\91901> flutter doctor --android-licenses

Warning: Errors during XML parse:
Warning: Additionally, the fallback loader failed to parse the XML.
Warning: Errors during XML parse:
Warning: Additionally, the fallback loader failed to parse the XML.ry...
[=====] 100% Computing updates...
6 of 7 SDK package licenses not accepted.
Review licenses that have not been accepted (y/N)? y

1/6: License android-googletv-license:
-----
Terms and Conditions

This is the Google TV Add-on for the Android Software Development Kit License Agreement.

1. Introduction

1.1 The Google TV Add-on for the Android Software Development Kit (referred to in this License Agreement as the "Google TV Add-on" and specifically including the Android system files, packaged APIs, and Google APIs add-ons) is licensed to you subject to the terms of this License Agreement. This License Agreement forms a legally binding contract between you and Google in relation to your use of the Google TV Add-on.

1.2 "Google" means Google Inc., a Delaware corporation with principal place of business at 1600 Amphitheatre Parkway, Mountain View, CA 94043, United States.

2. Accepting this License Agreement

2.1 In order to use the Google TV Add-on, you must first agree to this License Agreement. You may not use the Google TV Add-on if you do not accept this License Agreement.

2.2 You can accept this License Agreement by:

(A) clicking to accept or agree to this License Agreement, where this option is made available to you; or

(B) by actually using the Google TV Add-on. In this case, you agree that use of the Google TV Add-on constitutes acceptance of the License Agreement from that point onwards.

2.3 You may not use the Google TV Add-on and may not accept the Licensing Agreement if you are a person barred from receiving the Google TV Add-on under the laws of the United States or other countries including the country in which you are resident or from which you use the Google TV Add-on.

2.4 If you are agreeing to be bound by this License Agreement on behalf of your employer or other entity, you represent and warrant that you have full legal

```

```

ANY PRE-RELEASE MATERIALS ARE NON-QUALIFIED AND, AS SUCH, ARE PROVIDED "AS IS" AND "AS AVAILABLE", POSSIBLY WITH FAULTS, AND WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND.

10.8 Open Source Software. In the event Open Source software is included with Evaluation Software, such Open Source software is licensed pursuant to the applicable Open Source software license agreement identified in the Open Source software comments in the applicable source code file(s) and/or file header as indicated in the Evaluation Software. Additional detail may be available (where applicable) in the accompanying on-line documentation. With respect to the Open Source software, nothing in this Agreement limits any rights under, or grants rights that supersede, the terms of any applicable Open Source software license agreement.

-----
Accept? (y/N): y
All SDK package licenses accepted

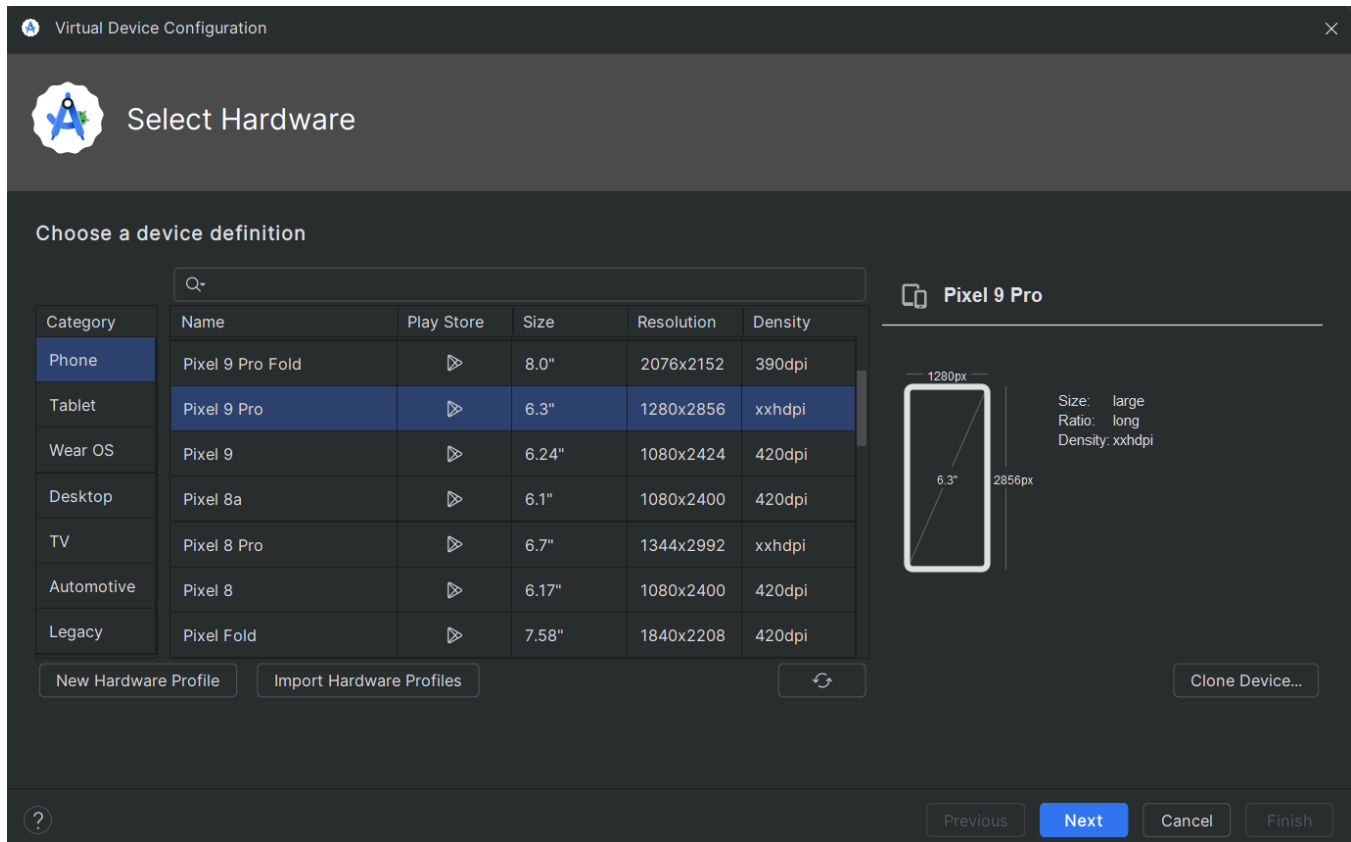
C:\Users\91901>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.27.3, on Microsoft Windows [Version 10.0.22631.4602], locale en-IN)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[✓] Android toolchain - develop for Android devices (Android SDK version 35.0.1)
[✓] Chrome - develop for the web
[✓] Visual Studio - develop Windows apps (Visual Studio Community 2022 17.12.3)
[✓] Android Studio (version 2024.2)
[✓] VS Code (version 1.96.3)
[✓] Connected device (3 available)
[✓] Network resources

• No issues found!


C:\Users\91901>

```


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.

 **Android Virtual Device (AVD)**


Verify Configuration


AVD name:

 Pixel 9 Pro	6.3 1280x2856 xxhdpi	<button>Change...</button>
 VanillaIceCream	Android 15.0 x86_64	<button>Change...</button>

Preferred ABI: Optimal ▼

Startup orientation:



Portrait


Landscape

Show Advanced Settings

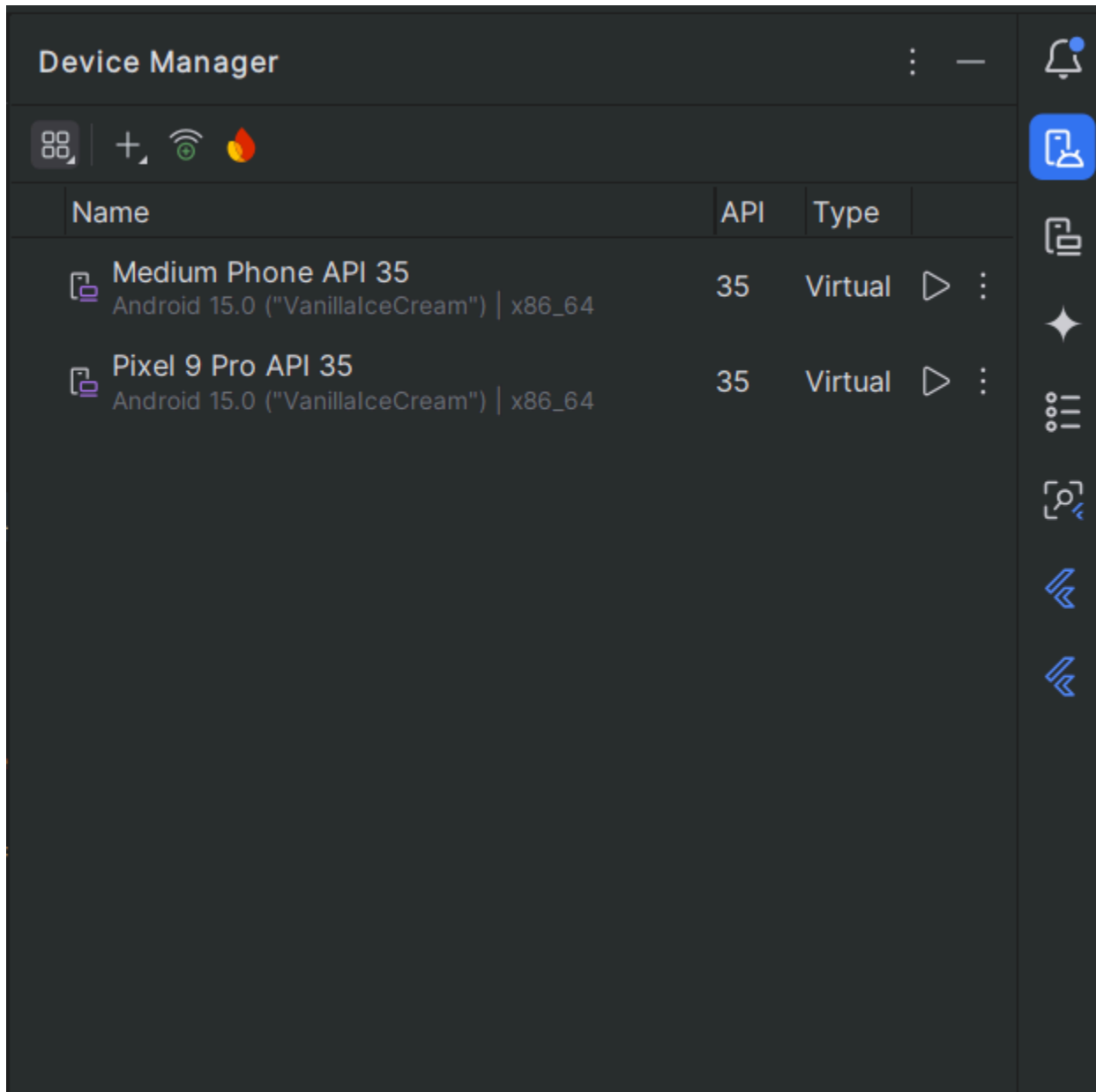
AVD Name

The name of this AVD.



Previous Next Cancel **Finish**

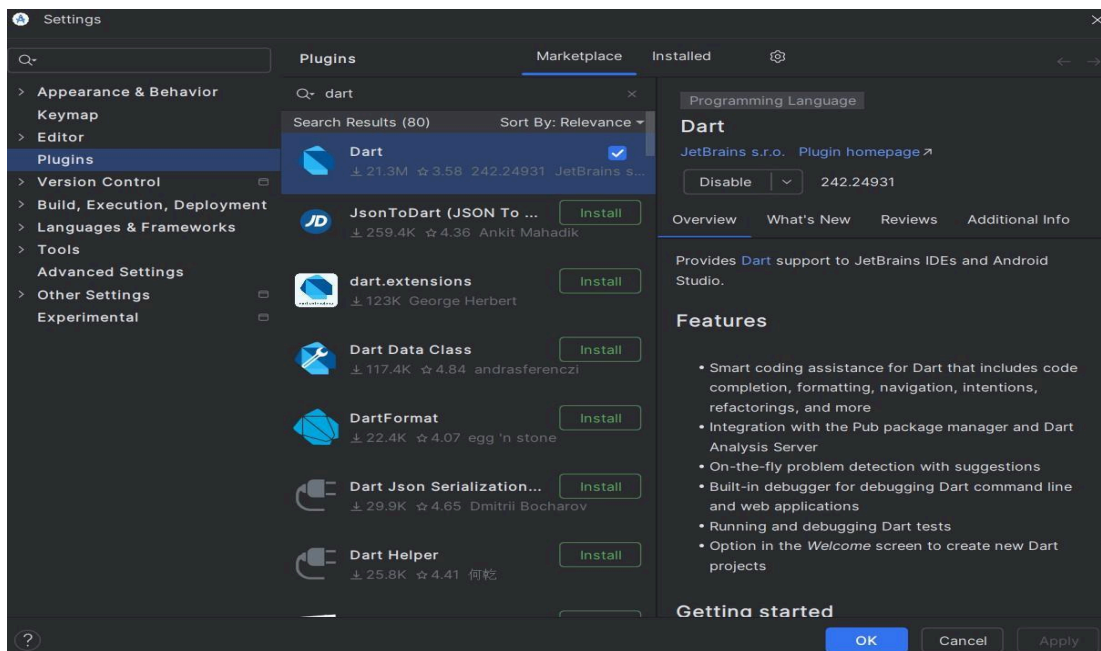
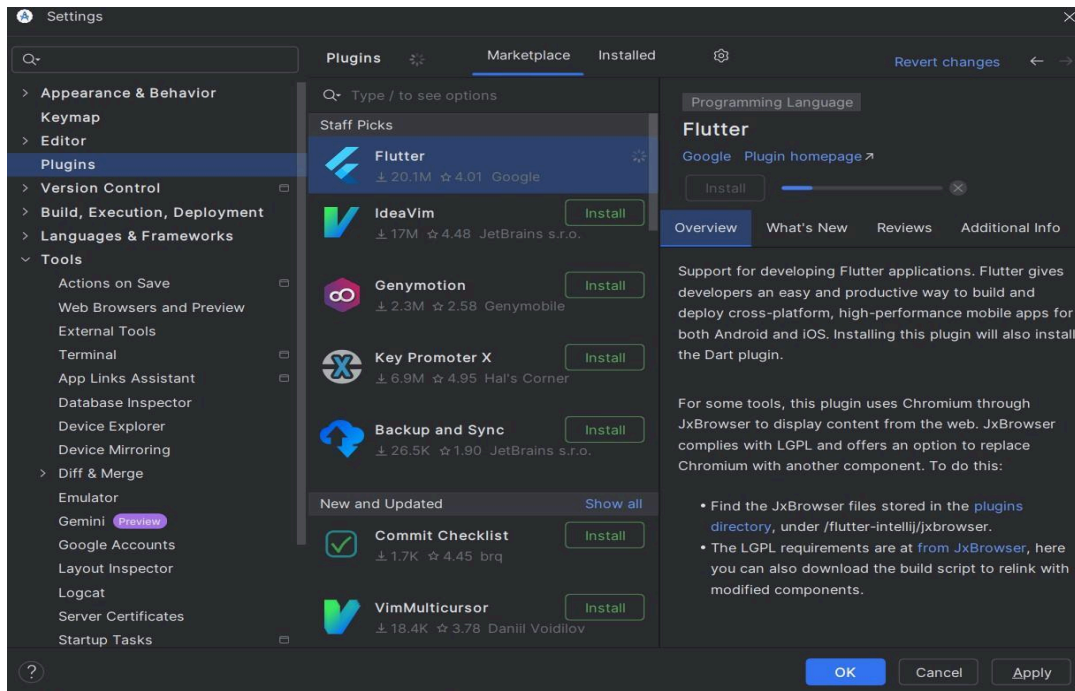
Step 10.2: - Click on the icon pointed into the red color rectangle. The Android emulator displayed as below screen





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.

