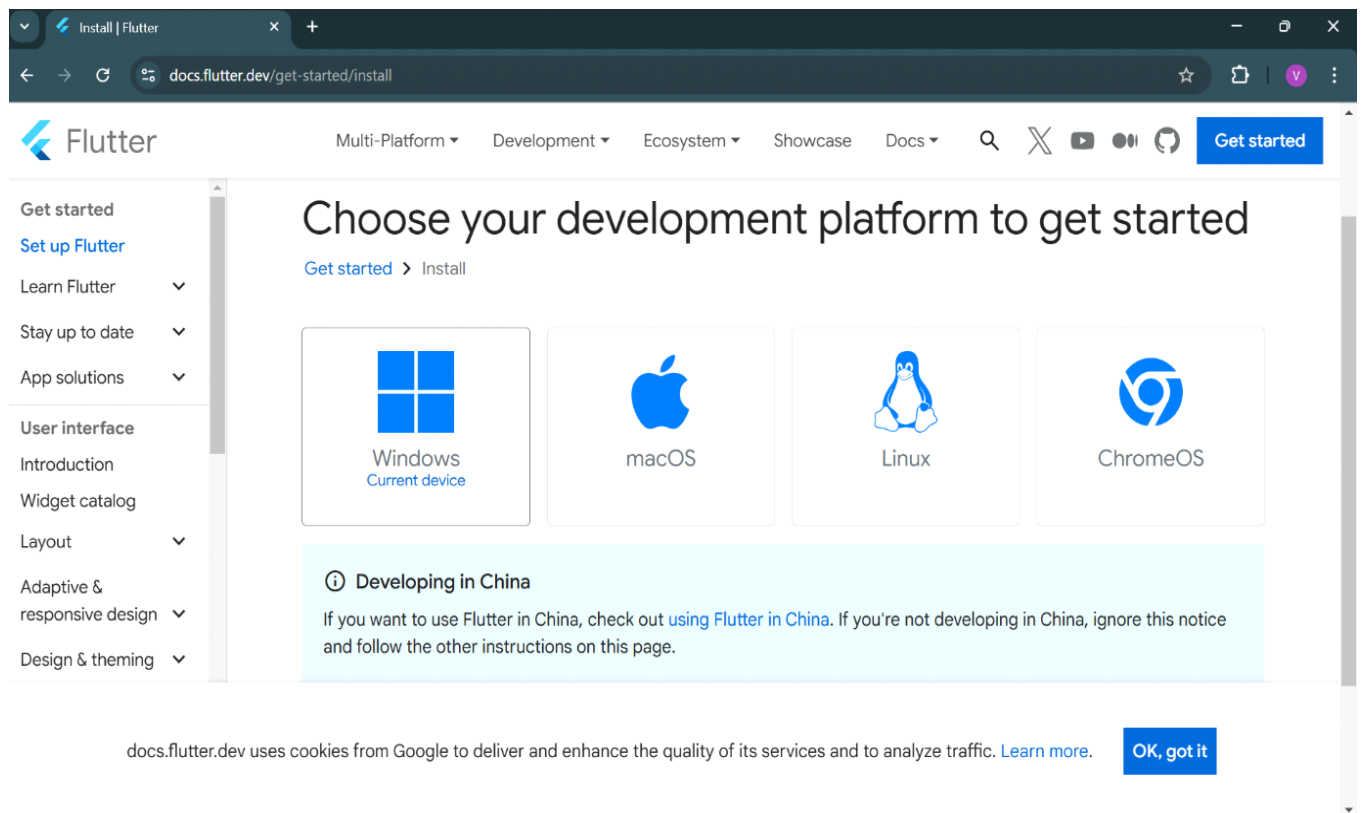# EXPERIMENT NO: - 01

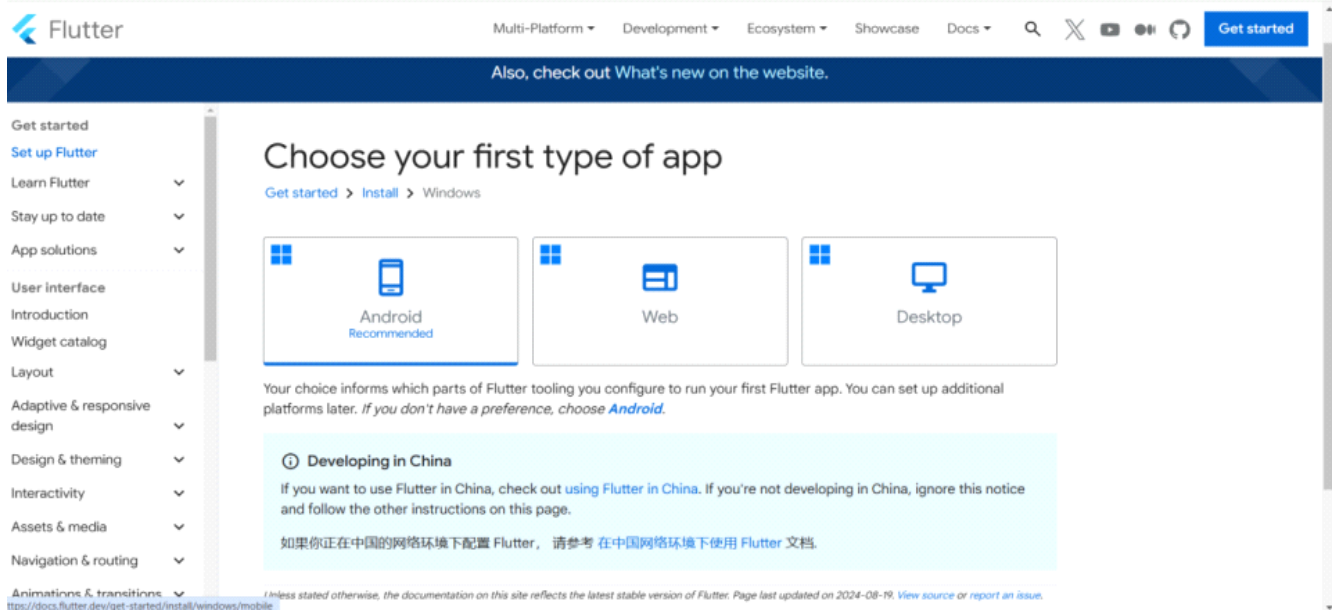Name:- Diksha Utekar   Class:- D15A   Roll:No: - 63

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)

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).

bin

C:\flutter\bin

C:\

New

	Name	Date modified	Type	Size
> Documents				
> Pictures	cache	27-02-2025 09:48	File folder	
> Scans	internal	27-02-2025 09:32	File folder	
> เอกสาร	mingit	27-02-2025 09:32	File folder	
	dart	27-02-2025 09:31	File	3 KB
Desktop	dart	27-02-2025 09:31	Windows Batch File	2 KB
Downloads	flutter	27-02-2025 09:31	File	3 KB
Documents	flutter	27-02-2025 09:31	Windows Batch File	3 KB
Pictures	flutter-dev	27-02-2025 09:31	File	3 KB
Music	flutter-dev	27-02-2025 09:31	Windows Batch File	3 KB
Videos				
Screenshots				
Screenshots				
OS (C:)				

This PC

> OS (C:)

> Network

Edit environment variable ✕

%SystemRoot%\system32	New
%SystemRoot%	
%SystemRoot%\System32\Wbem	Edit
%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\	
%SYSTEMROOT%\System32\OpenSSH\	Browse...
C:\flutter\bin	
	Delete
	Move Up
	Move Down
	Edit text...

OK   Cancel

OK   Cancel

Step 6 : - Now, run the $ flutter command in command prompt

```
Command Prompt - flutter          ×    +   ⌄                              ─   □   ×

C:\Users\ASUS>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 d
octor", 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:

Flutter SDK
  bash-completion    Output command line shell completion setup scripts.
  channel            List or switch Flutter channels.
  config             Configure Flutter settings.
  doctor             Show information about the installed tooling.
  downgrade          Downgrade Flutter to the last active version for the current channel.
  precache           Populate the Flutter tool's cache of binary artifacts.
```
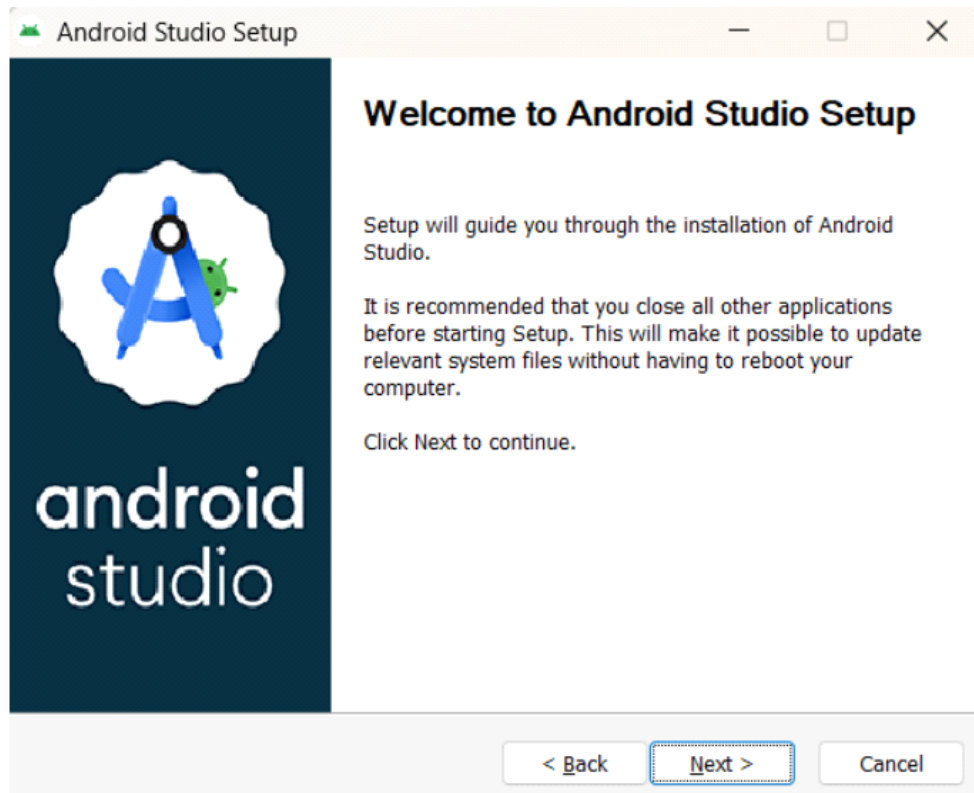
Step 7:- Run the $ flutter doctor command. This command checks for all the requirements of Flutter app development and displays a report of the status of your Flutter installation

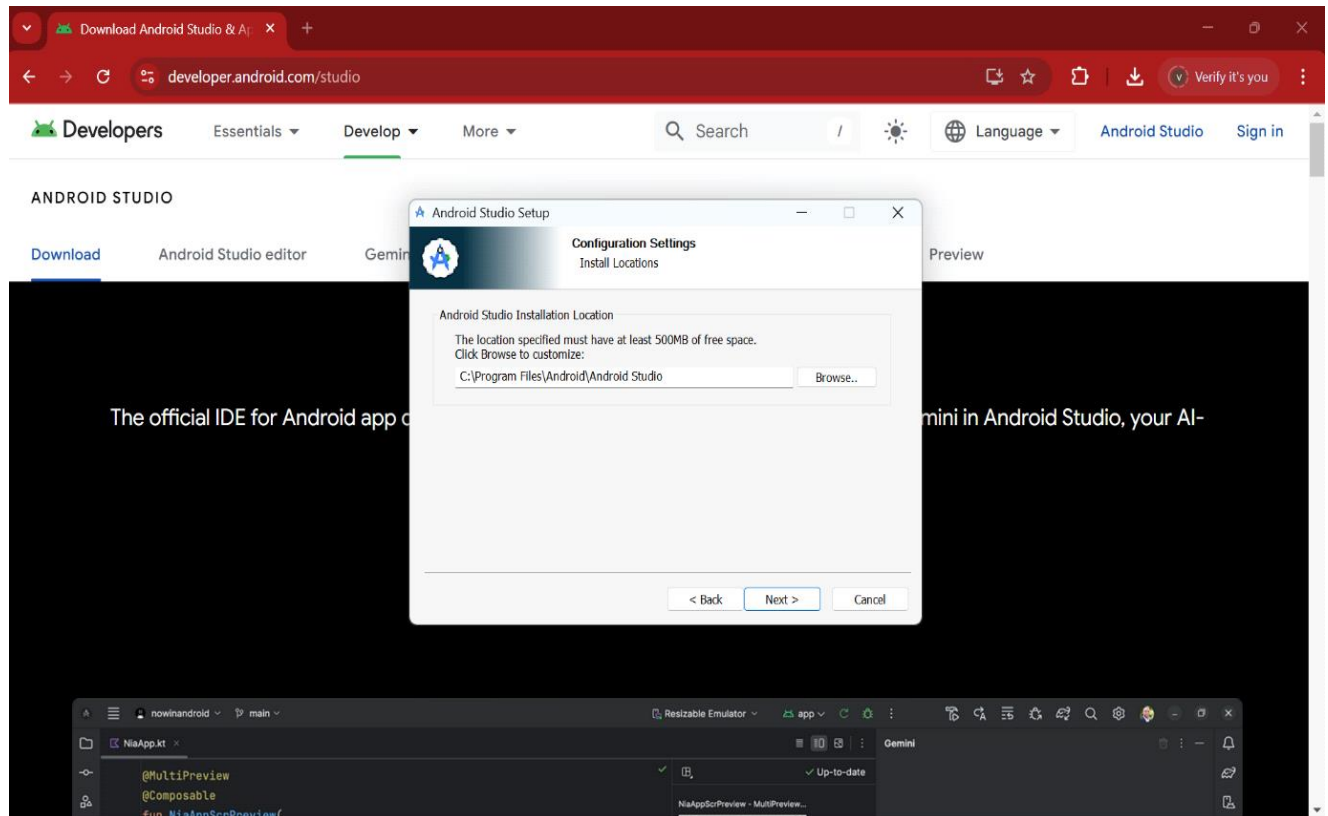Step 8 : - Go to Android Studio and download the installer

Step 8.1: - When the download is complete, open the .exe file and run it. You will get the following dialog box
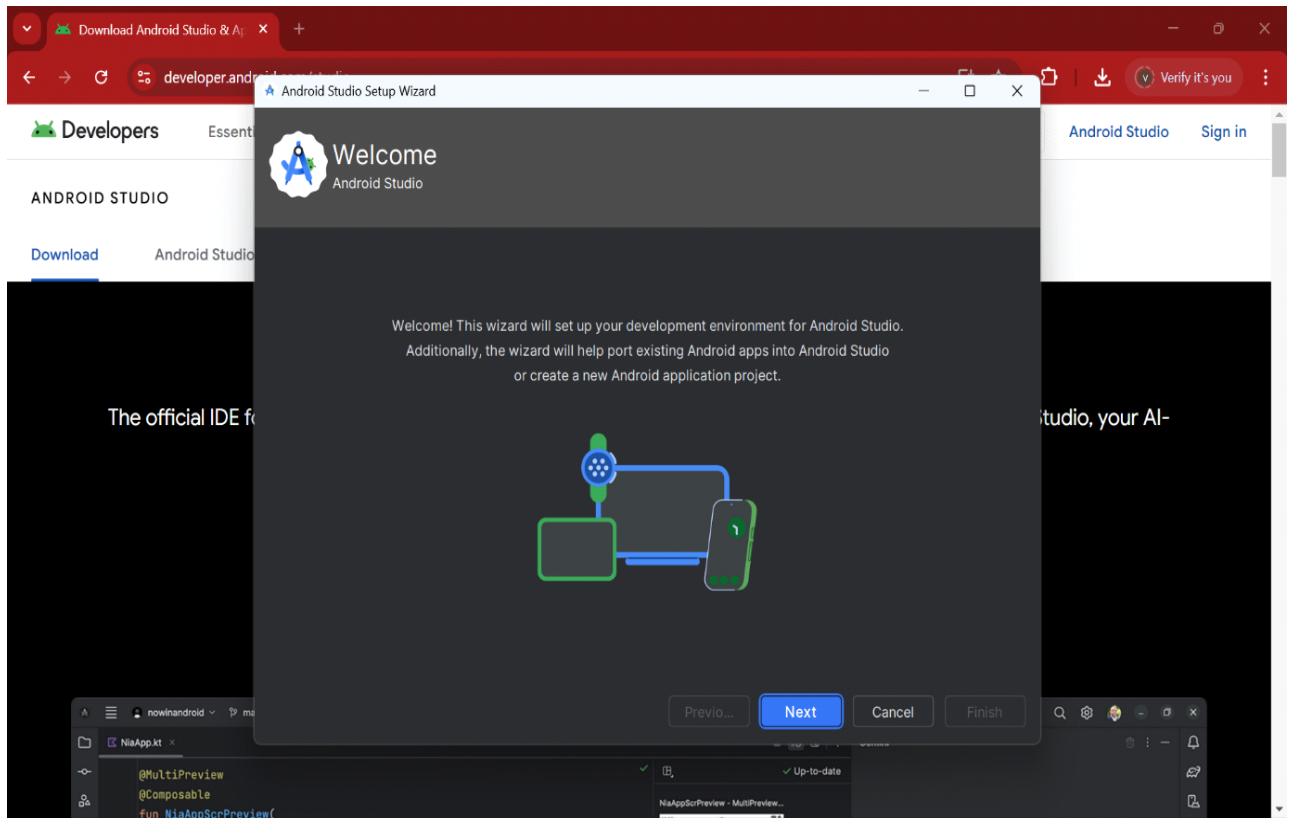
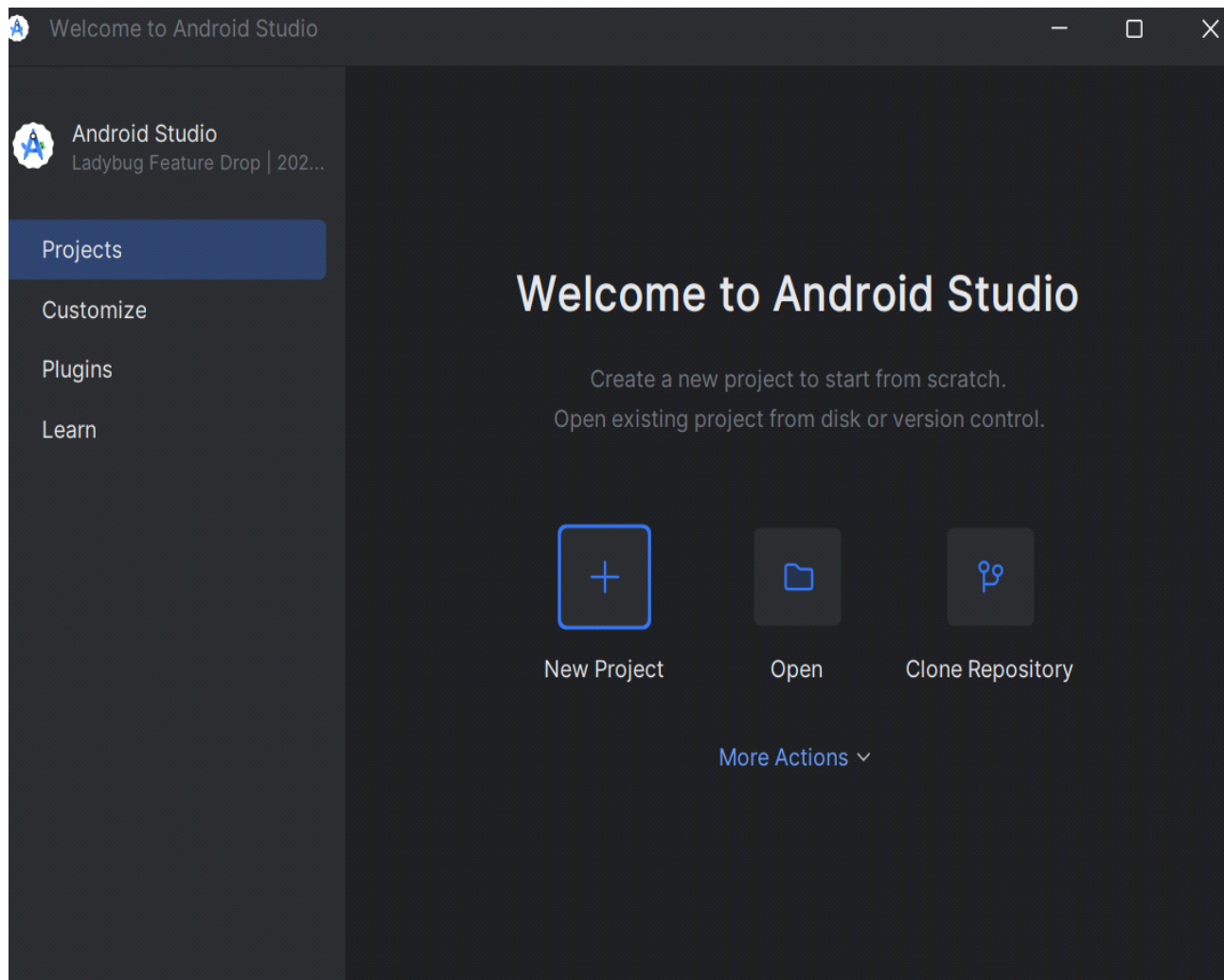Step 8.2: - Select all the Checkboxes and Click on 'Next' Button.
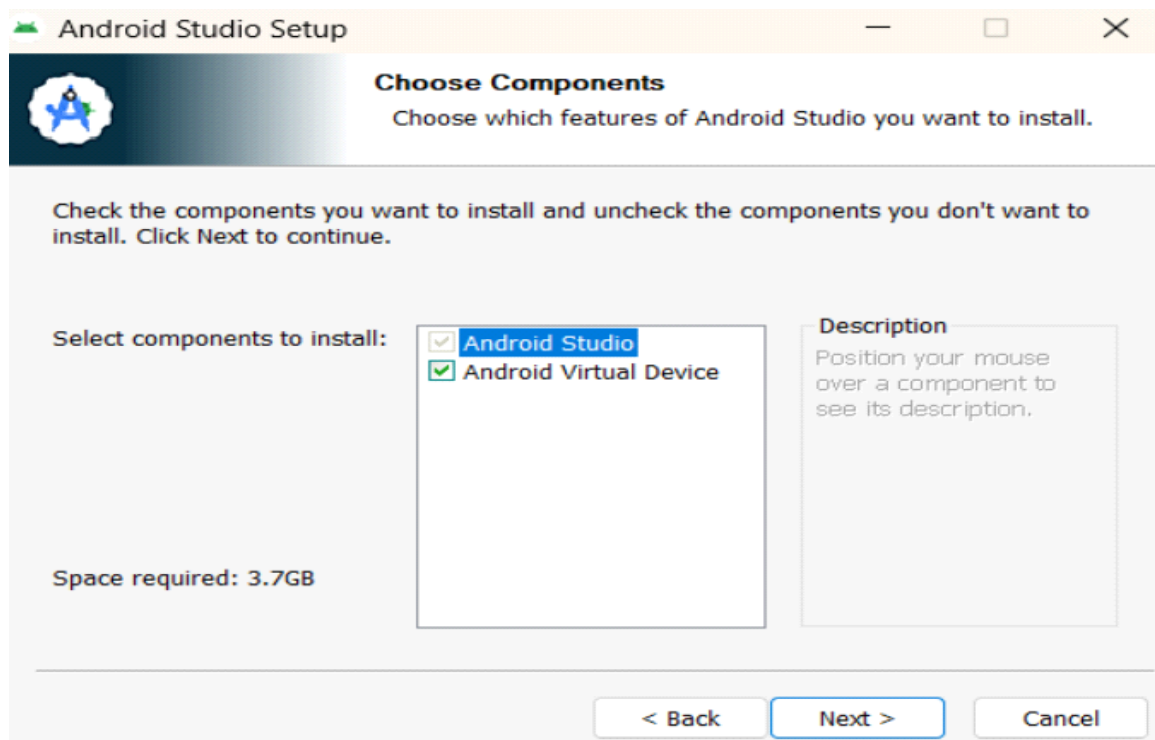
Step 8.3: - Change the destination as per your convenience and click on 'Next' Button.

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

developer.and

Verify it's you

Developers

Essenti

Android Studio   Sign in

ANDROID STUDIO

Download   Android Studio

The official IDE f   Studio, your AI-

Android Studio Setup Wizard

Welcome
Android Studio

Welcome! This wizard will set up your development environment for Android Studio.
Additionally, the wizard will help port existing Android apps into Android Studio
or create a new Android application project.

Previo...   Next   Cancel   Finish

nowinandroid

NiaApp.kt

Up-to-date

@MultiPreview
@Composable
fun NiaAppScrPreview(

NiaAppScrPreview - MultiPreview...

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

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\ASUS> flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[√] Flutter (Channel stable, 3.29.0, on Microsoft Windows [Version 10.0.22631.4751], locale
    en-IN)
[√] Windows Version (11 Home Single Language 64-bit, 23H2, 2009)
[!] Android toolchain - develop for Android devices (Android SDK version 35.0.1)
    ! Some Android licenses not accepted. To resolve this, run: flutter doctor
      --android-licenses
[√] 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)
[√] VS Code (version 1.84.2)
[√] Connected device (3 available)
[√] Network resources

! Doctor found issues in 2 categories.
PS C:\Users\ASUS>
```
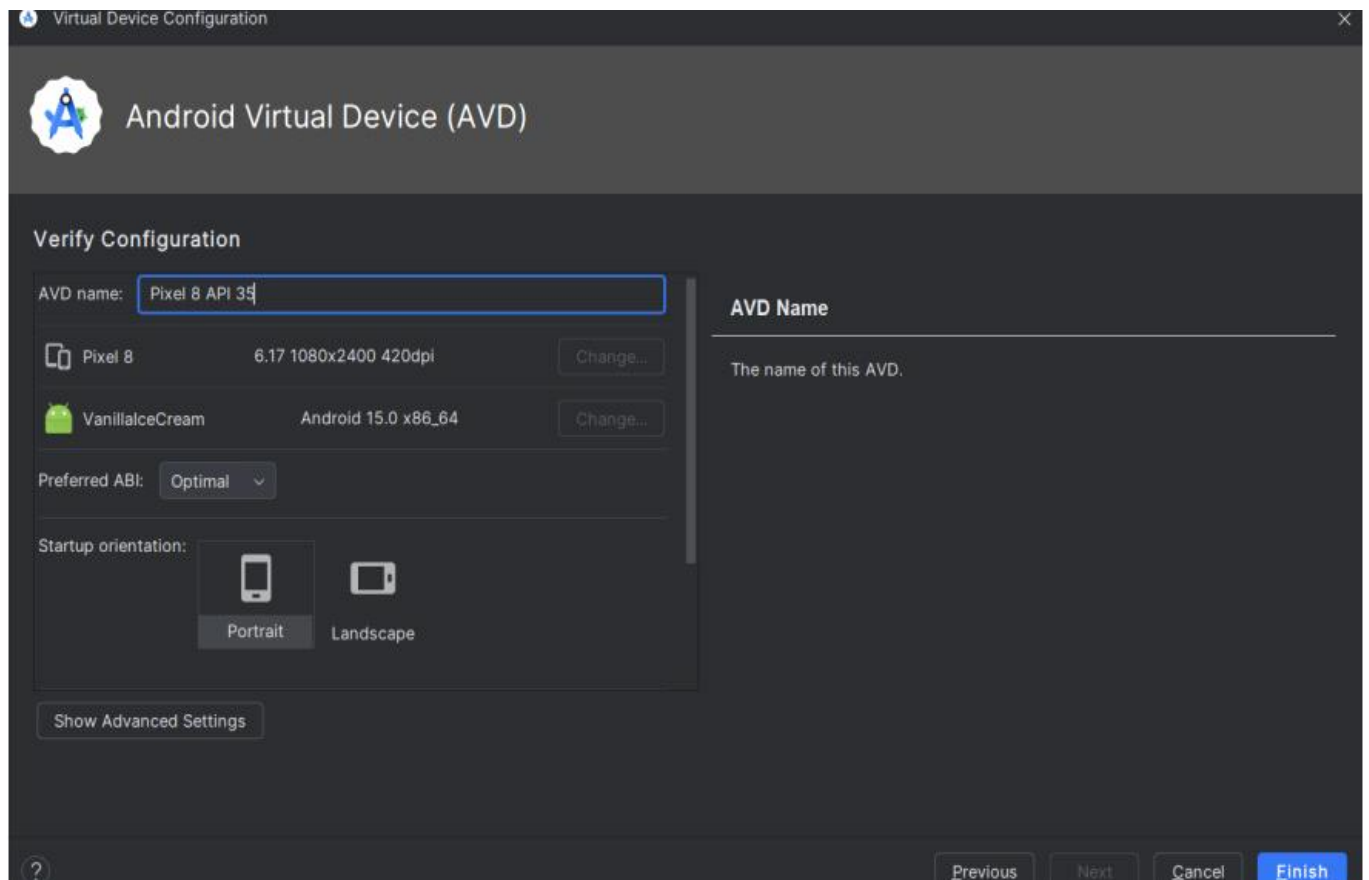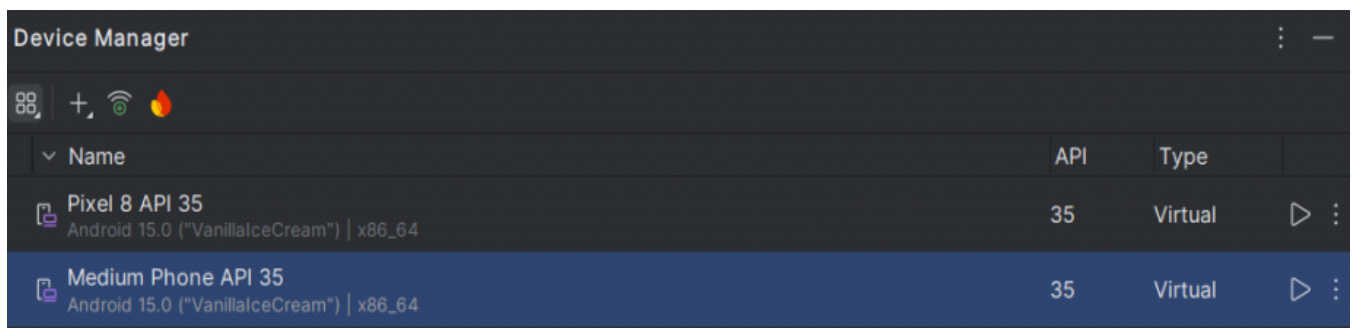
Step 10: - Next, you need to set up an Android emulator. It is responsible for running and testing the Flutter application
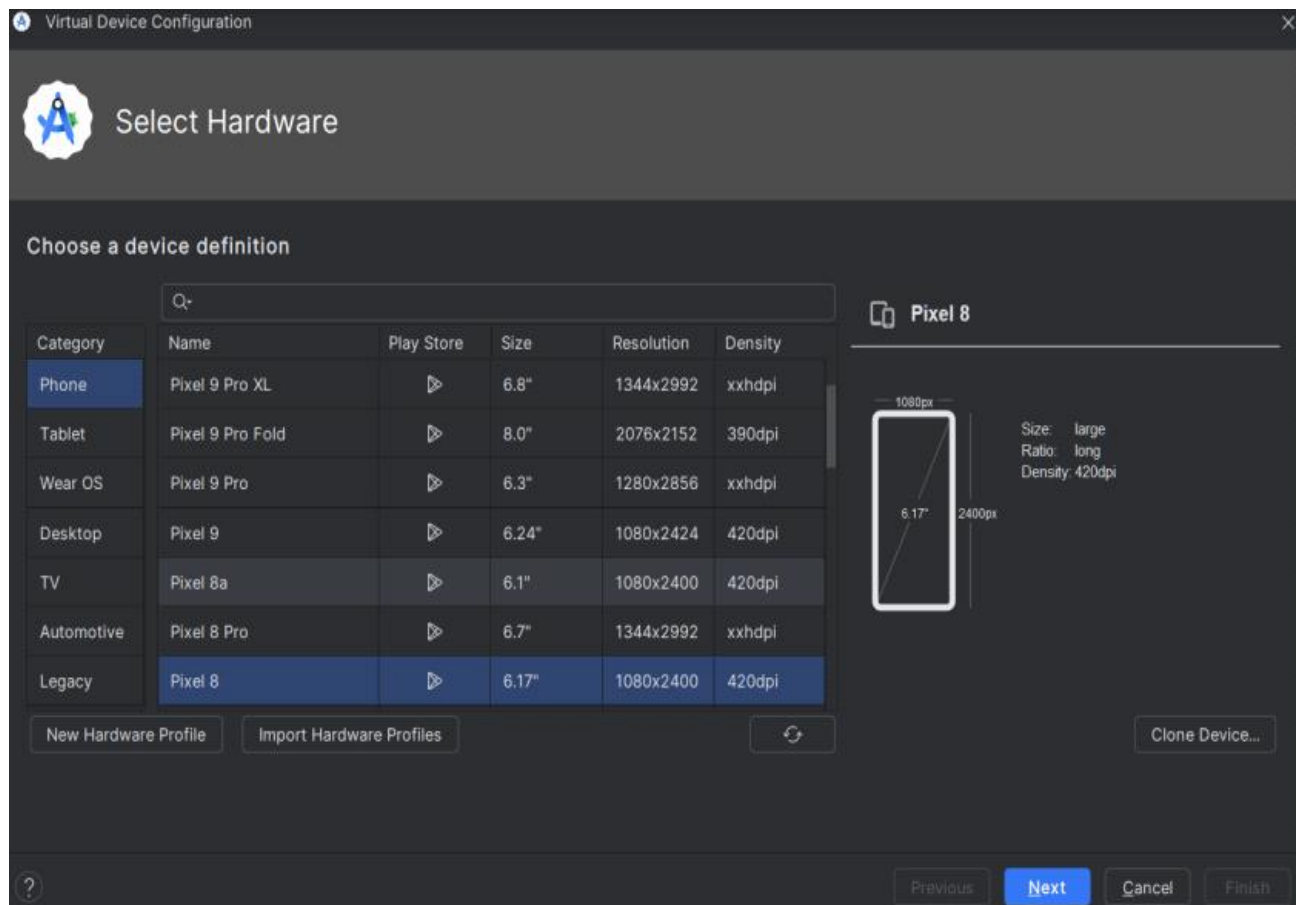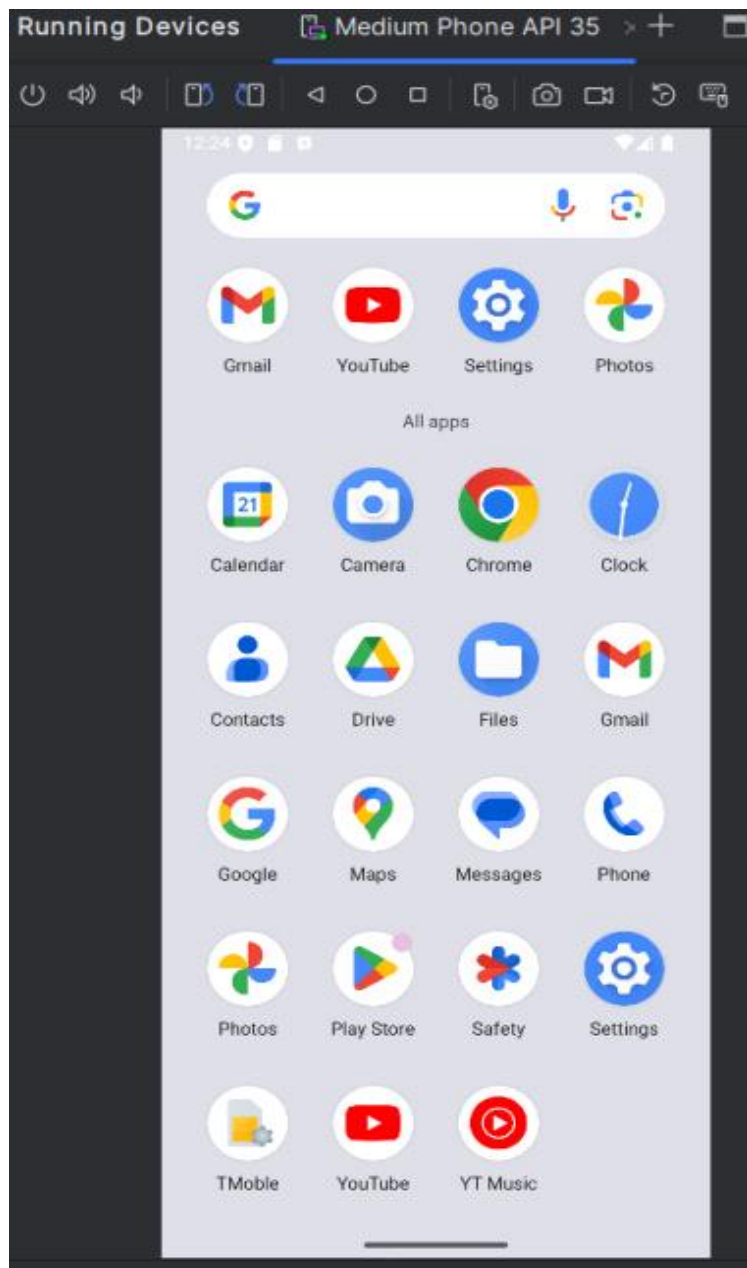
Step 10.1: - Open Android Studio and go to Tools > AVD Manager. Create a new virtual device.

Step 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
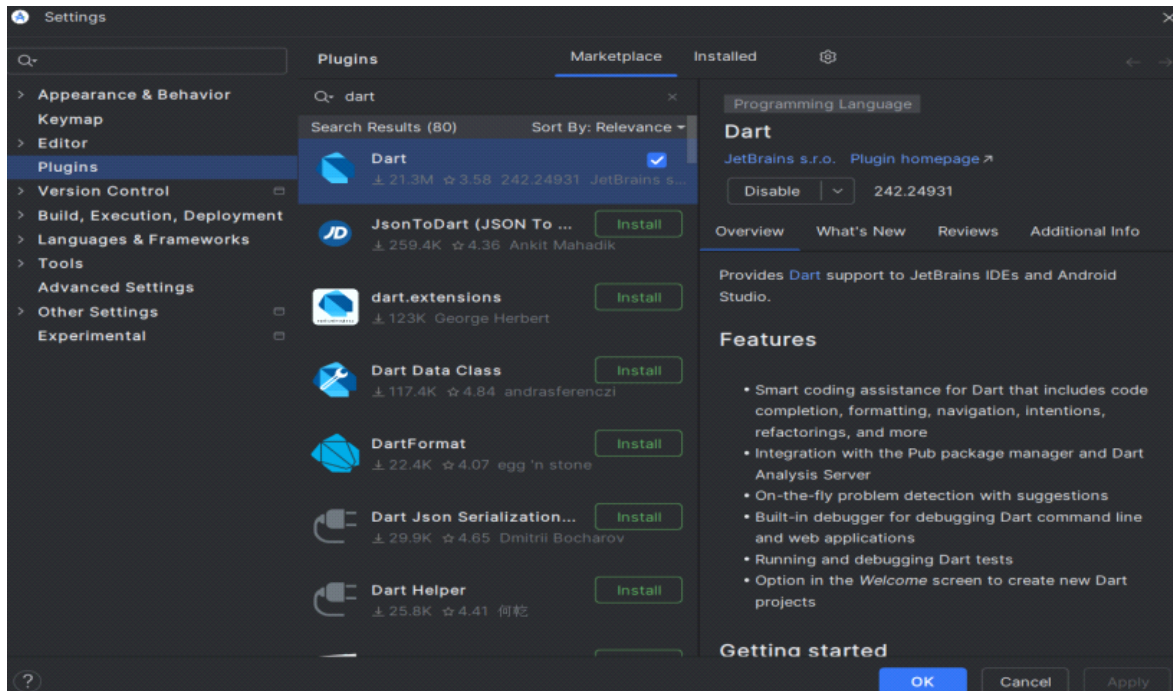
Step 11.2: - Restart the Android Studio

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

Hello Diksha Utekar

You have pushed the button this many times:

0

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