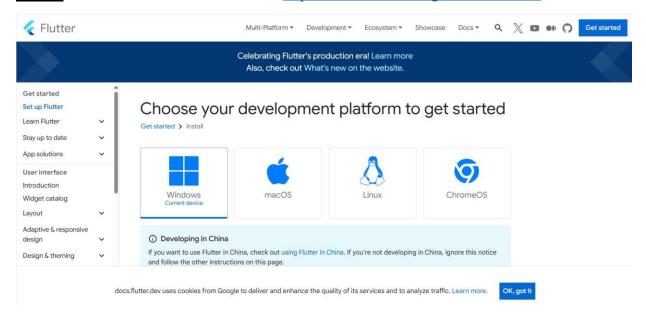
EXPERIMENT NO: - 01

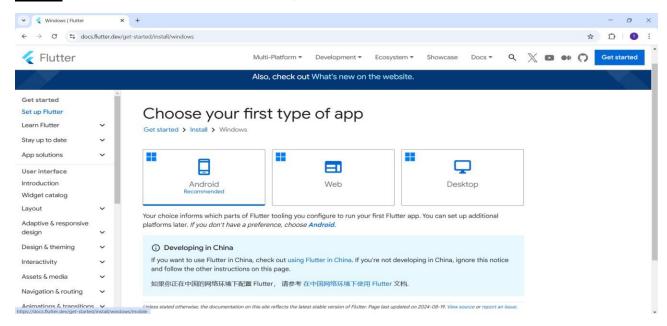
Name:- Niraj Kothawade Class:- D15A Roll:No: - 24

<u>AIM: -</u> Installation and Configuration of Flutter Environment.

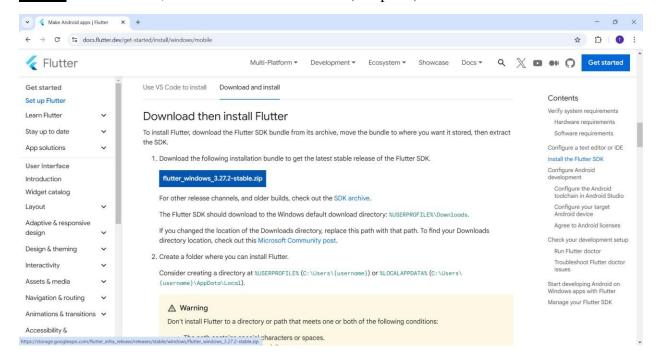
Step 1: Go to the official Flutter website: https://docs.flutter.dev/get-started/install



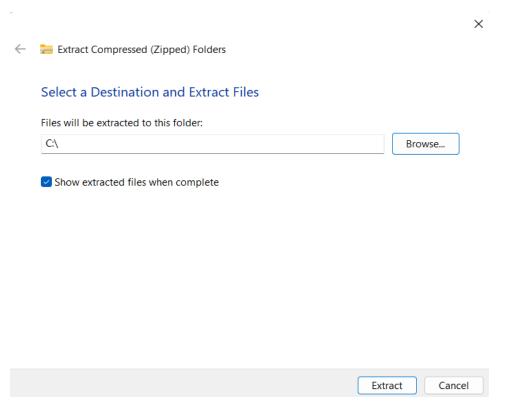
Step 2: To download the latest Flutter SDK, click on the Windows icon > Android



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



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

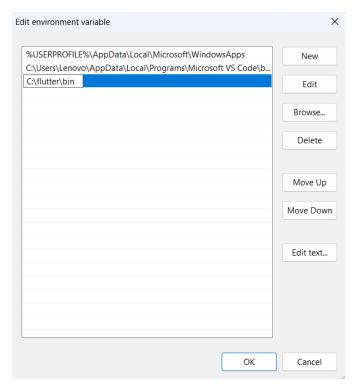


Step 5 :- Add Flutter to System PATH

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).



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

```
Microsoft Windows [Version 10.0.22631.4751]
(c) Microsoft Corporation. All rights reserved.

C:\Users\TEJAS>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
    -h, -help
    -v, -verbose

    -d, -device-id
    -version
    -enable-analytics
    -disable-analytics
    -disable-analytics
    -disable-analytics
    -disable-analytics
    -suppress-analytics

-suppress-analytics

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

```
You have received two consent messages because the flutter tool is migrating to a new analytics system. Disabling analytics collection will disable both the legacy and new analytics collection systems. You can disable analytics reporting by running 'flutter --disable-analytics'

C:\Users\TEJAS>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[// Flutter (Channel stable, 3.27.2, on Microsoft Windows [Version 10.0.22631.4751], locale en-US)
[// 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/to/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

[X] Visual Studio - develop Windows apps

X Visual Studio - develop Windows apps

X Visual Studio not installed; this is necessary to develop Windows apps.

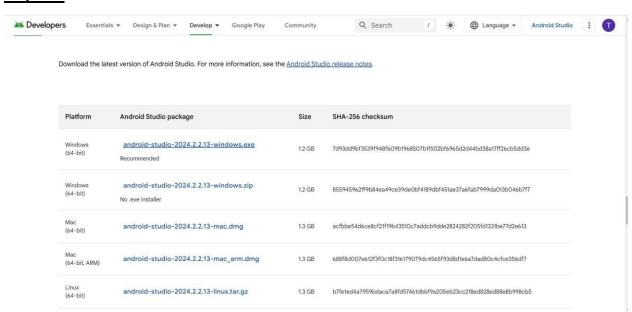
Download at https://visualstudio.microsoft.com/downloads/.

Please install the "Desktop development with C++" workload, including all of its default components

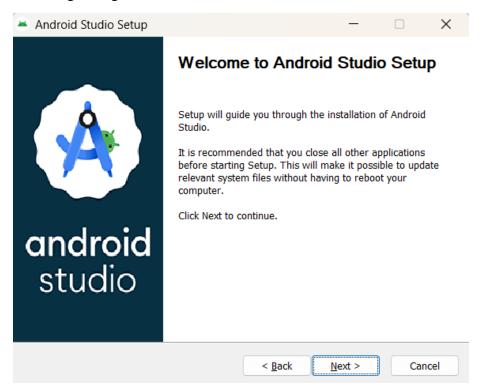
[1] Android Studio (not installed)
[2] VS Code (version 1.96.4]
[3] Connected device (3 available)
[4] Network resources

1 Doctor found issues in 3 categories.
```

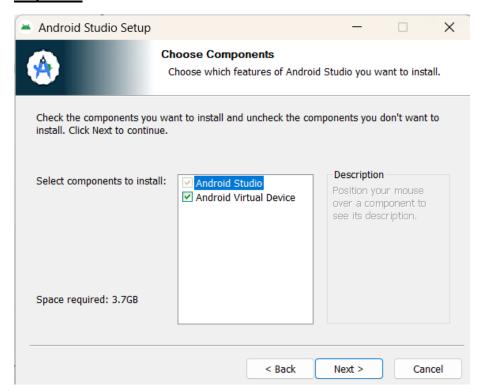
Step 8: - Go to Android Studio and download the installer.



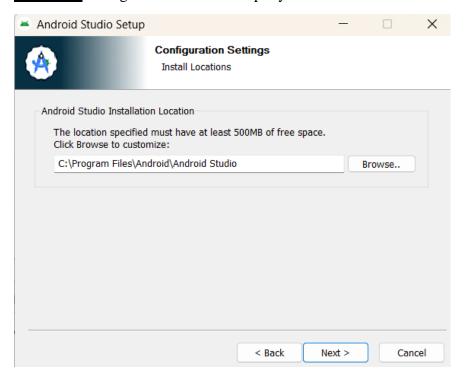
<u>Step 8.1: -</u> When the download is complete, open the .exe file and run it. You will get the following dialog box



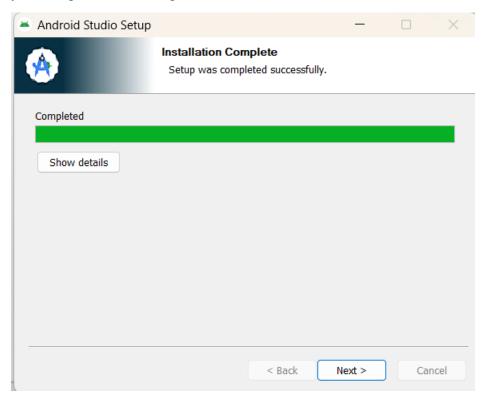
Step 8.2: - Select all the Checkboxes and Click on 'Next' Button.

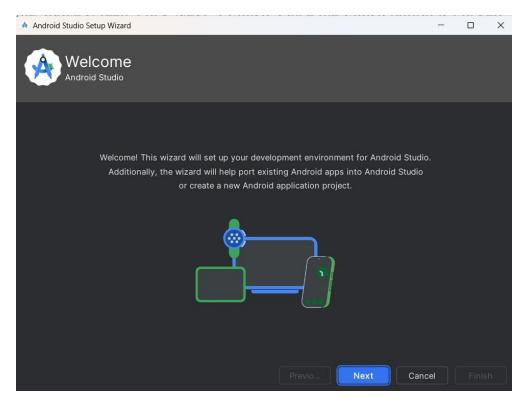


Step 8.3: - Change the destination as per your convenience and click on 'Next' Button.

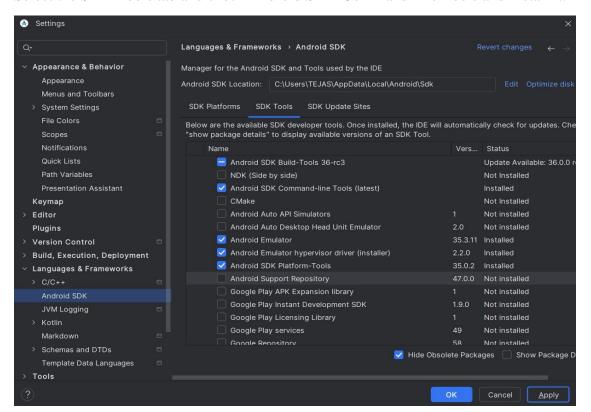


<u>Step 8.4: -</u> Follow the steps of the installation wizard. Once the installation wizard completes, you will get the following screen.





<u>Step 8.5: -</u> 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

```
Doctor summary (to see all details, run flutter doctor -v):

[/] Flutter (Channel stable, 3.27.2, on Microsoft Windows [Version 10.0.22631.4751], locale en-US)

[/] 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 17.12.4)

X The current Visual Studio installation is incomplete.

Please use Visual Studio Installation is incomplete.

Please use Visual Studio (version 2024.2)

[/] VS Code (version 1.96.4)

[/] Connected device (3 available)

[/] Network resources

! Doctor found issues in 1 category.

C:\Users\TEJAS>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):

[/] Flutter (Channel stable, 3.27.2, on Microsoft Windows [Version 10.0.22631.4751], locale en-US)

[/] 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 17.12.4)

[/] Android Studio (version 2024.2)

[/] VS Code (version 1.96.4)

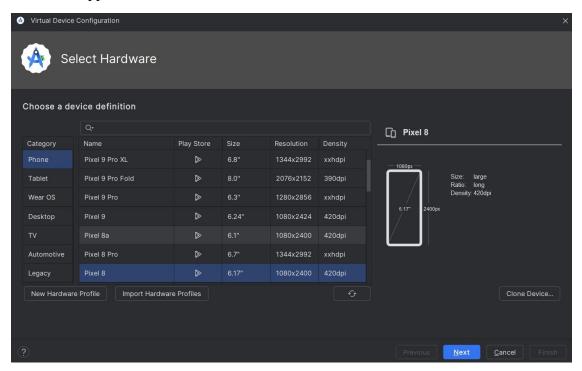
[/] Connected device (3 available)

[/] Network resources

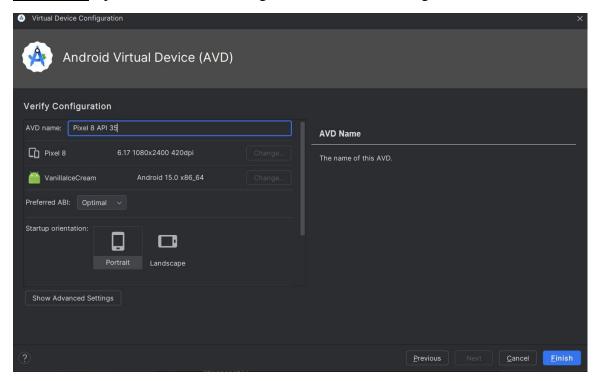
* No issues found!

C:\Users\TEJAS>
```

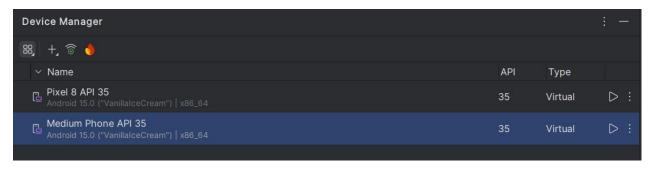
<u>Step 10: -</u> Next, you need to set up an Android emulator. It is responsible for running and testing the Flutter application

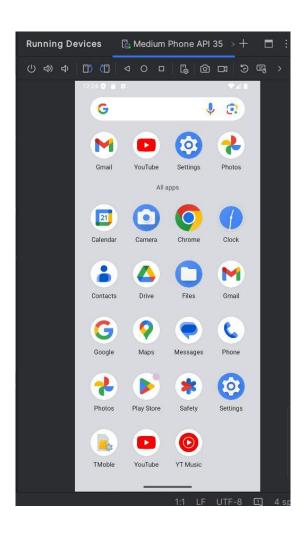


Step 10.1: - Open Android Studio and go to Tools > AVD Manager. Create a new virtual device.



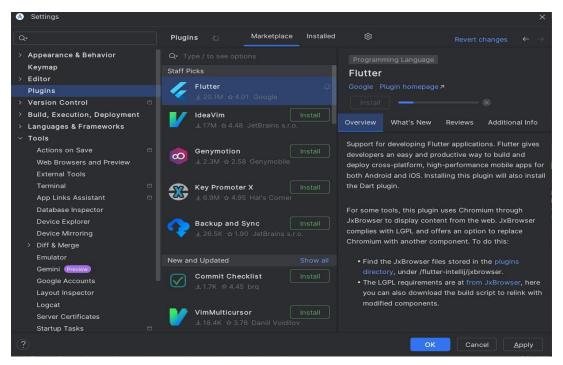
<u>Step 10.2: -</u> Click on the icon pointed into the red color rectangle. The Android emulator displayed as below screen

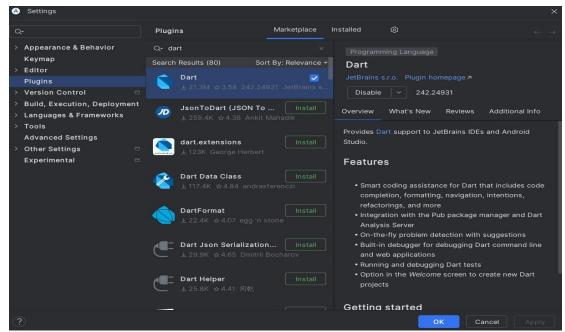




<u>Step 11: -</u> Now, install Flutter and Dart plugin for building Flutter application in Android Studio. These plugins provide a template to create a Flutter application, give an option to run and debug Flutter application in the Android Studio itself

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

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

