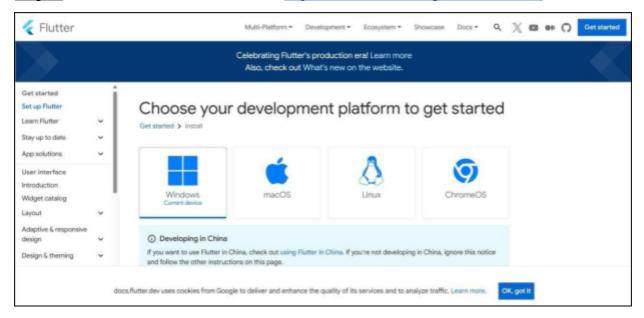
EXPERIMENT NO: - 01

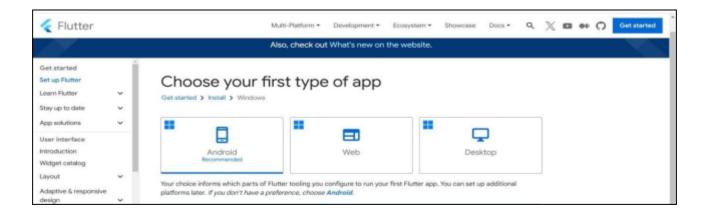
Name:- Jai Talreja Class:- D15A Roll:No: - 59

AIM: - Installation and Configuration of Flutter Environment.

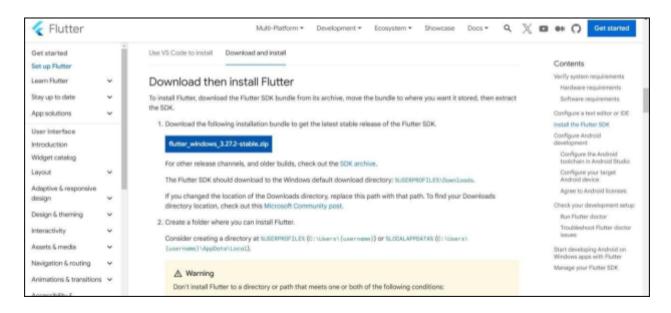
Step 1: Go to the official Flutter website: https://docs.flutter.dev/get-started/install



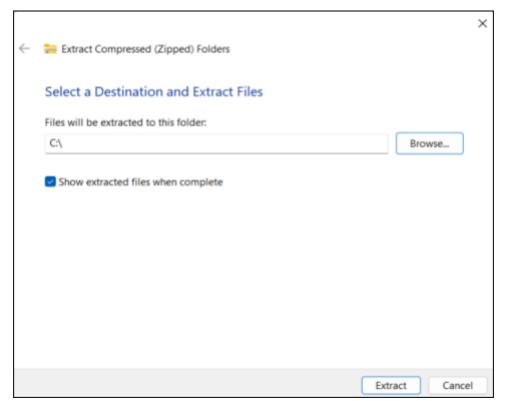
Step 2: To download the latest Flutter SDK, click on the Windows icon > Android



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



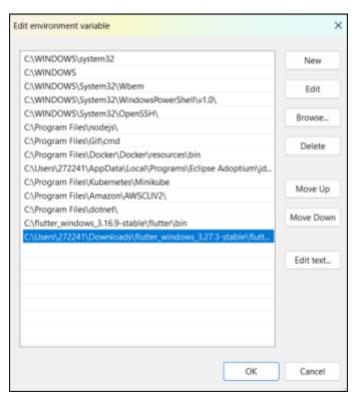
Step 4: Extract the ZIP file to a folder (e.g., C:\flutter).



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).



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

```
Command Prompt - flutter
Microsoft Windows [Version 10.0.22631.4751]
(c) Microsoft Corporation. All rights reserved.
C:\Users\272241>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 execute If used with "--help", shows hidden options. If use
                              diagnostic information. (Use "-vv" to force verbos
                              Target device id or name (prefixes allowed).
-d, --device-id
```

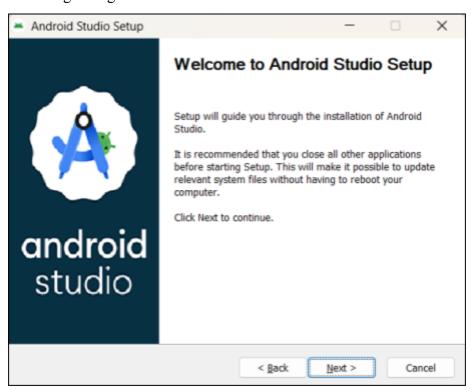
Step 7:- Run the \$ flutter doctor command. This command checks for all the requirements of Flutter app development and displays a report of the status of your Flutter installation

```
C:\Users\272241>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[/] Flutter (Channel stable, 3.27.3, on Microsoft Windows [Version 10.0.22631.4751], locale en
[/] Windows Version (Installed version of Windows is version 10 or higher)
[/] Android toolchain - develop for Android devices (Android SDK version 34.0.0)
[\mbox{\em /}] Chrome - develop for the web
[!] Visual Studio - develop Windows apps (Visual Studio Community 2022 17.12.4)
    X Visual Studio is missing necessary components. Please re-run the Visual Studio installer
     development with C++" workload, and include these components:
        MSVC v142 - VS 2019 C++ x64/x86 build tools
         - If there are multiple build tool versions available, install the latest
        C++ CMake tools for Windows
        Windows 10 SDK
[√] Android Studio (version 2023.1)
[√] VS Code (version 1.96.4)
[]] Connected device (3 available)
[√] Network resources
! Doctor found issues in 1 category
```

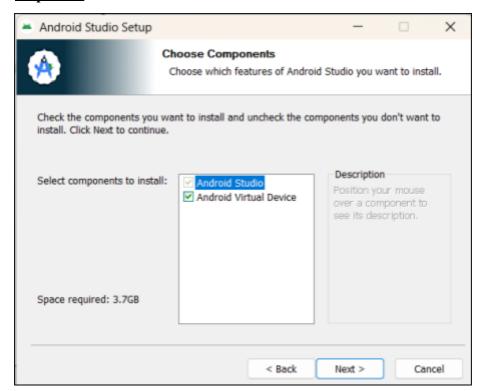
Step 8 : - Go to Android Studio and download the installer.

Download the latest version of Android Studio. For more information, see the <u>Android Studio release notes</u> .			
Platform	Android Studio package	Size	SHA-256 checksum
Windows (64-bit)	android-studio-2024.2.2.13-windows.exe Reconvended	1268	7d93dd9b13539P948F6O9b19k8507b1f5O2b16965d2d44bd38w17ff26cb5dd3e
Windows (64-bit)	android-studio-2024.2.2.13-windows.zip No .exe installer	1.2 GB	85594596299564ea49ox39deOb14189db1451ex37eb1eb17999deO13b046b7f7
Mac (64-bit)	android-studio-2024.2.2.13-mac.dmg	1.3 GB	acfbbe54d6ce8cf2ff9b43610c7addcb9dde2824282f205fdt33fbe77d2e6f3
Mac (64-bit, ARM)	android-studio-2024.2.2.13-mac_arm.dmg	1.3 GB	688f8d007e612f3f0c18f316179079dc4565f93d8dfe6a7dad80c4cfce356df7
Linux (64-bit)	android-studio-2024.2.2.13-linux.tar.gz	13 GB	b7fe1ed4a7959bdaca7a81d574b1dbb99a205eb23cc218ed828ed888e6b996cb5

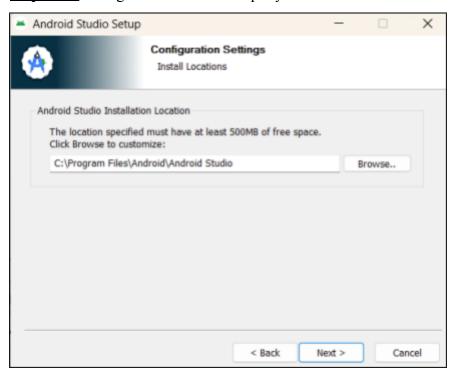
Step 8.1: - When the download is complete, open the .exe file and run it. You will get the following dialog box



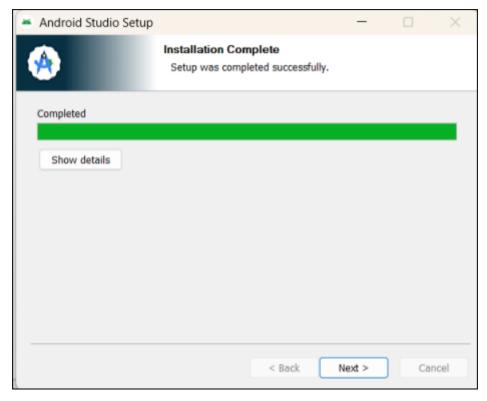
Step 8.2: - Select all the Checkboxes and Click on 'Next' Button.

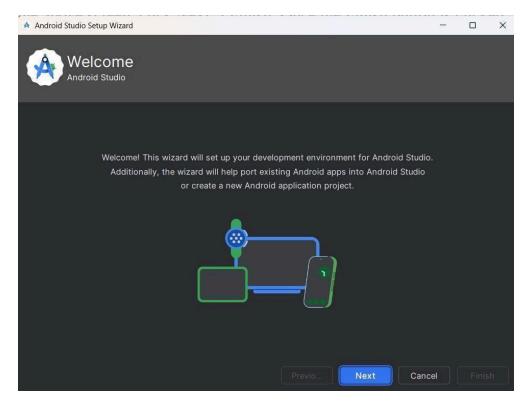


Step 8.3: - Change the destination as per your convenience and click on 'Next' Button.

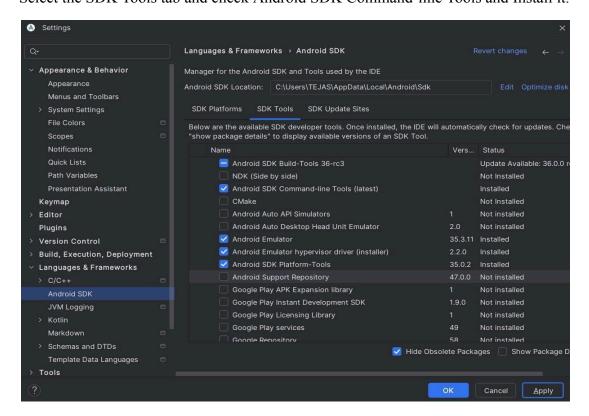


Step 8.4: - Follow the steps of the installation wizard. Once the installation wizard completes, you will get the following screen.





<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

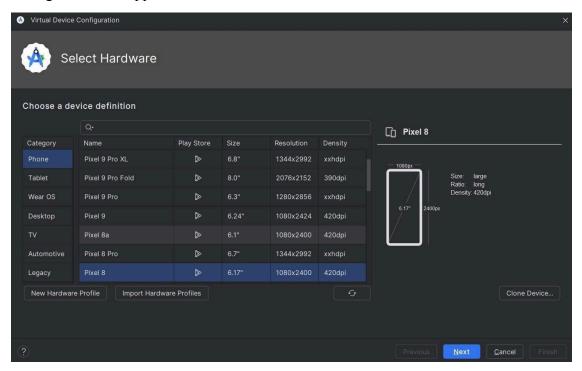
```
C:\Users\272241>flutter doctor --android-licenses

Warning: Additionally, the fallback loader failed to parse the XML.
Warning: Errors during XML parse:

| 64% Fetch remote repository...
| Warning: Additionally, the fallback loader failed to parse the XML.ry...
| 180% Computing updates...
| All SDK package licenses accepted.
```

```
C:\Users\272241>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[/] Flutter (Channel stable, 3.27.3, on Microsoft Windows [Version 10.0.22631.4751], locale en
[/] Windows Version (Installed version of Windows is version 10 or higher)
[/] Android toolchain - develop for Android devices (Android SDK version 34.0.0)
[/] Chrome - develop for the web
[!] Visual Studio - develop Windows apps (Visual Studio Community 2022 17.12.4)
    X Visual Studio is missing necessary components. Please re-run the Visual Studio installer
      development with C++" workload, and include these components:
        MSVC v142 - VS 2019 C++ x64/x86 build tools
         - If there are multiple build tool versions available, install the latest
        C++ CMake tools for Windows
        Windows 10 SDK
[/] Android Studio (version 2023.1)
[/] VS Code (version 1.96.4)
[/] Connected device (3 available)
[√] Network resources
 Doctor found issues in 1 category.
```

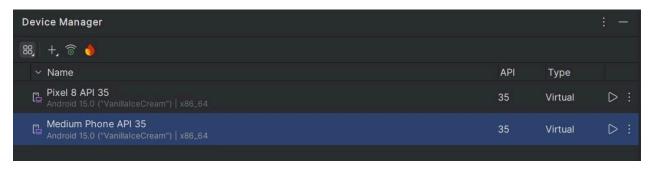
Step 10: - Next, you need to set up an Android emulator. It is responsible for running and testing the Flutter application



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



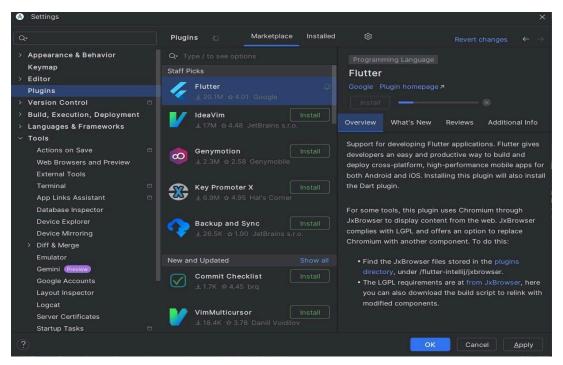
Step 10.2: - Click on the icon pointed into the red color rectangle. The Android emulator displayed as below screen

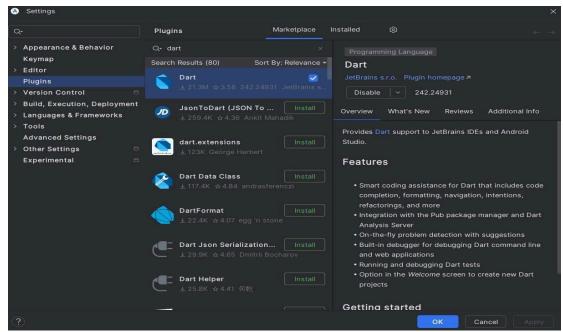




<u>Step 11: -</u> Now, install Flutter and Dart plugin for building Flutter application in Android Studio. These plugins provide a template to create a Flutter application, give an option to run and debug Flutter application in the Android Studio itself

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.