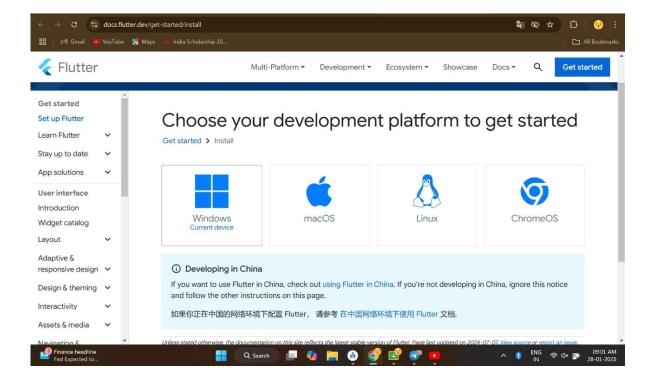
EXPERIMENT NO: - 01

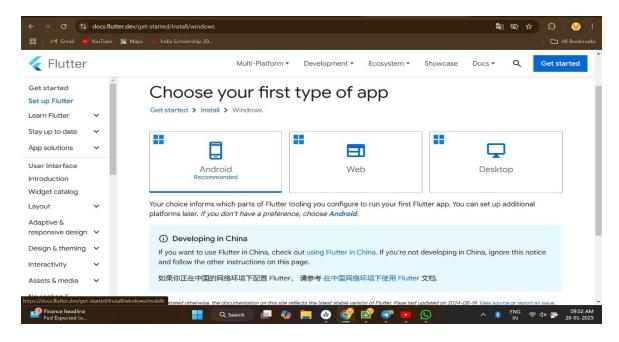
Name:- Prajyot Shinde Class:- D15A Roll:No: - 55

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

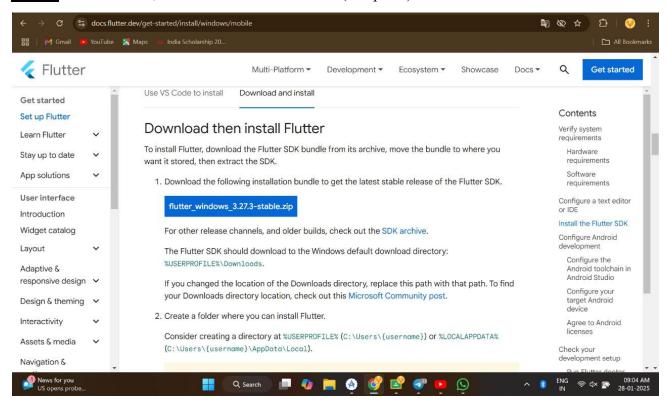
Step 1: Go to the official Flutter website: https://docs.flutter.dev/get-started/install



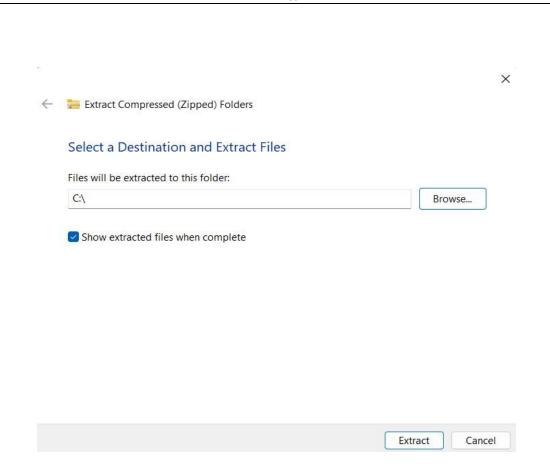
Step 2: To download the latest Flutter SDK, click on the Windows icon > Android



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



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

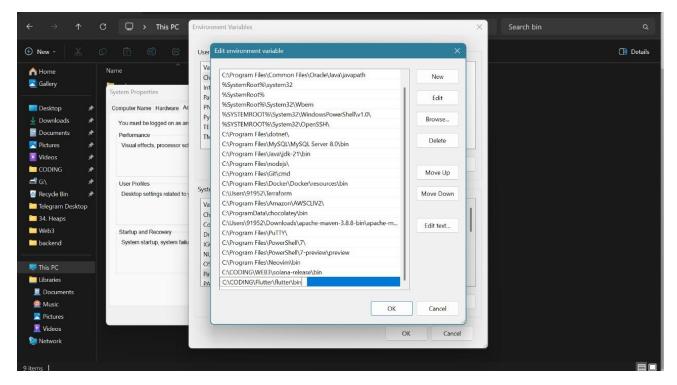


Step 5 :- Add Flutter to System PATH

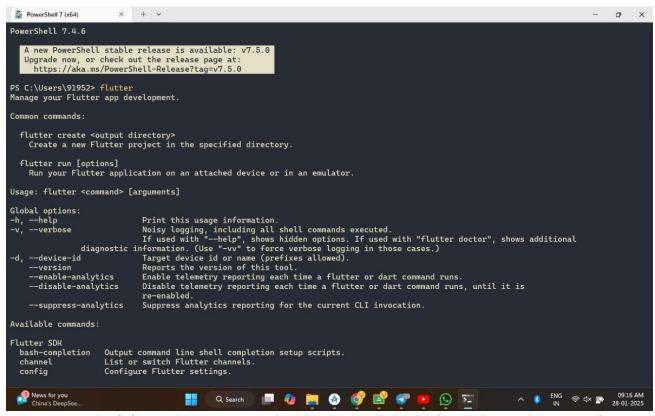
Right-click on the Start Menu > System > Advanced system settings > Environment Variables.

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.



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

```
PS C:\Users\91952> 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)

X condine-tools component is missing
Run 'path/to/sdkmanager --install "condine-tools;latest"
See https://developer.android.com/studio/command-line for more details.

X Android license status unknown.
Run 'flutter doctor --android-licenses' to accept the SDK licenses.
See https://flutter.dev/to/windows-android-setup for more details.

[/] Chrome - develop for the web
[/] Visual Studio of develop Windows apps (Visual Studio Community 2022 17.11.1)

X Visual Studio is missing necessary components. Please re-run the Visual Studio installer for the "Desktop development with C++"
workload, and include these components:

MSVC vi42 - 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

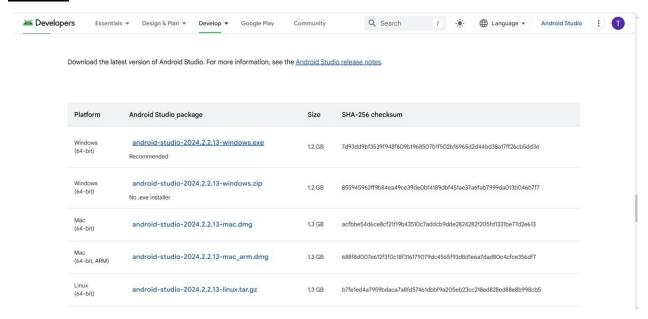
[/] Android Studio (version 2024.2)
[/] Intellij IDEA Community Edition (version 2023.2)
[/] J SC God (version 1.96.4)

[/] Connected device (3 available)
[/] Network resources

1 Doctor found issues in 2 categories.

PS C:\Users\91952>
```

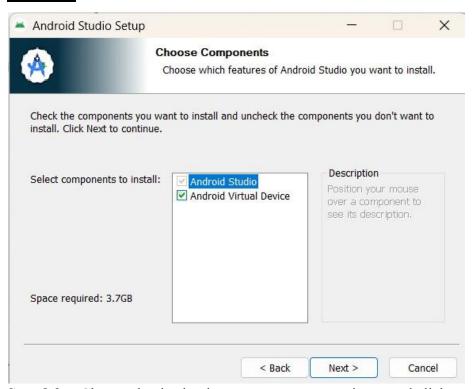
Step 8: - Go to Android Studio and download the installer.



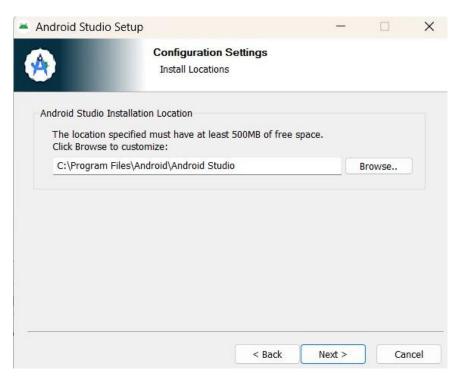
<u>Step 8.1: -</u> When the download is complete, open the .exe file and run it. You will get the following dialog box



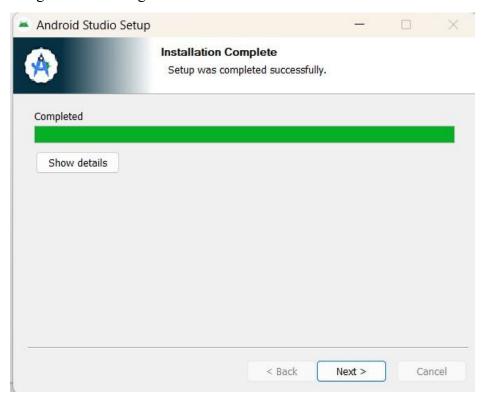
Step 8.2: - Select all the Checkboxes and Click on 'Next' Button.

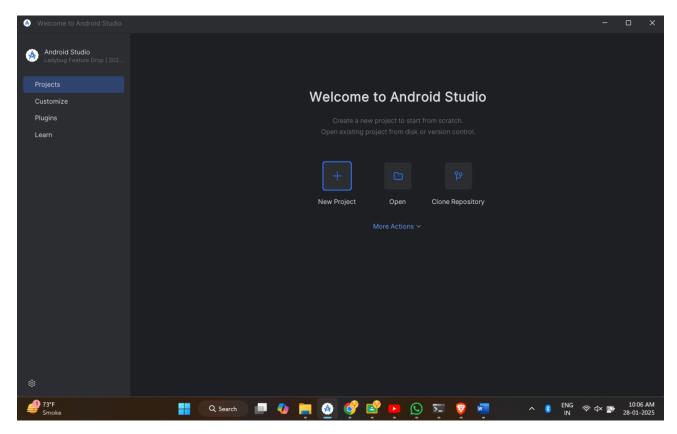


Step 8.3: - Change the destination as per your convenience and click on 'Next' Button.



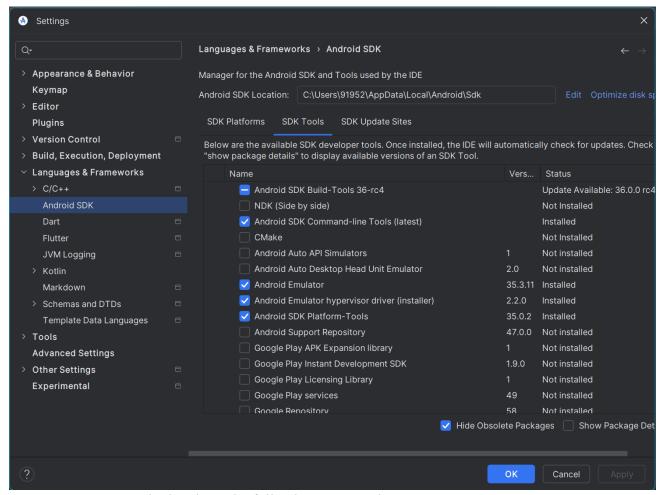
<u>Step 8.4: -</u> Follow the steps of the installation wizard. Once the installation wizard completes, you will get the following screen.



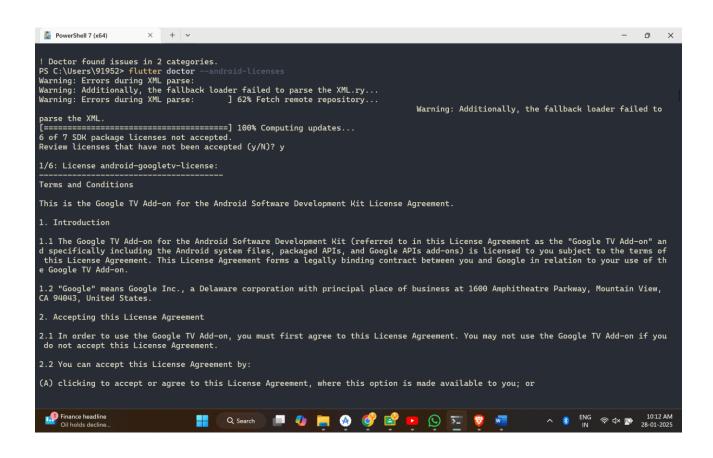


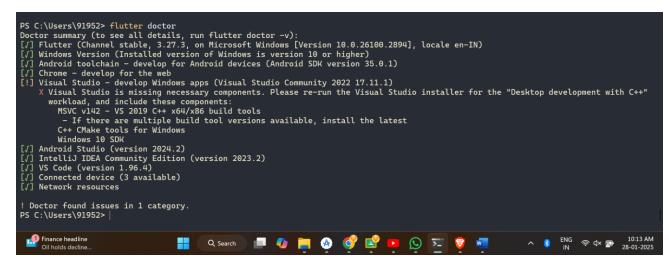
<u>Step 8.5: -</u> Go to Preferences > Appearance & Behavior > System Settings > Android SDK.

Select the SDK Tools tab and check Android SDK Command-line Tools and Install it.

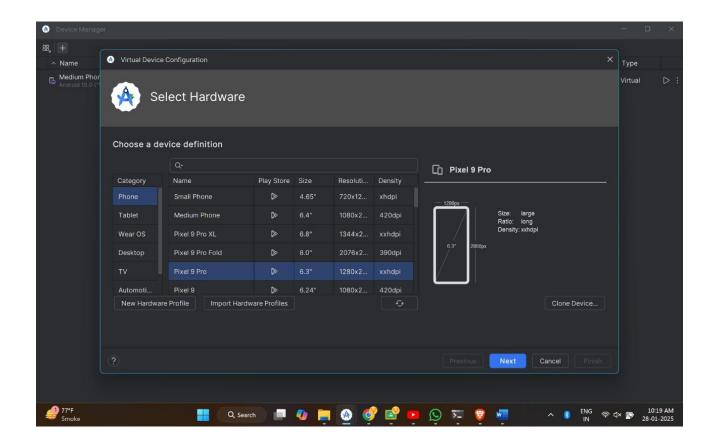


Step 9: - Open a terminal and run the following command

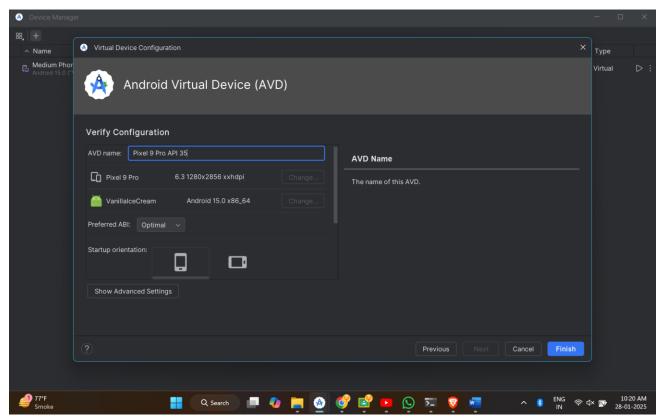




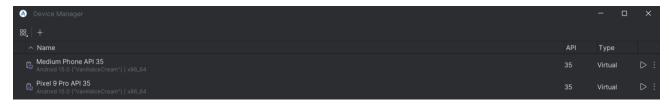
<u>Step 10: -</u> Next, you need to set up an Android emulator. It is responsible for running and testing the Flutter application



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



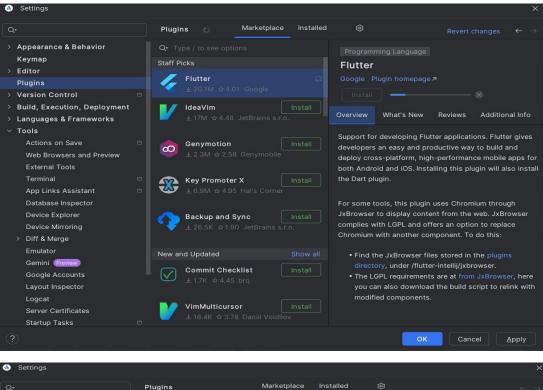
<u>Step 10.2: -</u> Click on the icon pointed into the red color rectangle. The Android emulator displayed as below screen

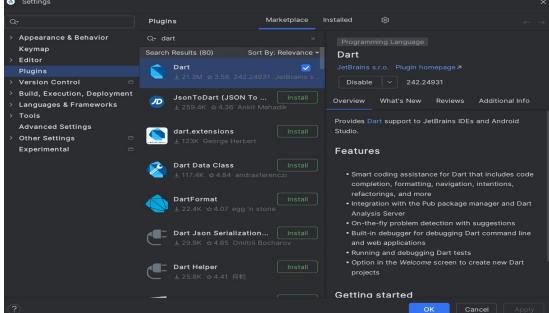




<u>Step 11: -</u> Now, install Flutter and Dart plugin for building Flutter application in Android Studio. These plugins provide a template to create a Flutter application, give an option to run and debug Flutter application in the Android Studio itself

<u>Step 11.1: -</u> 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.

```
import 'package:flutter/material.dart';
void main() {
 runApp(const MyApp());
class MyApp extends StatelessWidget {
 const MyApp({super.key});
 @override
 Widget build(BuildContext context) {
  return MaterialApp(
   title: 'Flutter Professional UI',
   theme: ThemeData(
    colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepPurple),
    textTheme: const TextTheme(
     headlineMedium: TextStyle(fontWeight: FontWeight.bold, color: Colors.deepPurple,
fontSize: 24),
     bodyLarge: TextStyle(color: Colors.black87, fontSize: 18),
    useMaterial3: true,
   home: const MyHomePage(title: 'Welcome Prajyot'),
class MyHomePage extends StatefulWidget {
 const MyHomePage({super.key, required this.title});
 final String title;
 @override
 State<MyHomePage> createState() => MyHomePageState();
class MyHomePageState extends State<MyHomePage> {
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(
    backgroundColor: Colors.deepPurple,
    title: Text(widget.title, style: const TextStyle(color: Colors.white)),
    centerTitle: true,
```

```
),
body: Center(
 child: Container(
  padding: const EdgeInsets.all(16.0),
  decoration: BoxDecoration(
   borderRadius: BorderRadius.circular(12.0),
   color: Colors.deepPurple.shade50,
   boxShadow: [
    BoxShadow(
      color: Colors. deepPurple. withOpacity(0.2),
      blurRadius: 10,
      spreadRadius: 1,
      offset: const Offset(0, 5),
   ],
  ),
  child: const Text(
   'Hello Prajyot',
   style: TextStyle(
      fontSize: 28,
      fontWeight: FontWeight.bold,
      color: Colors.deepPurple
```

