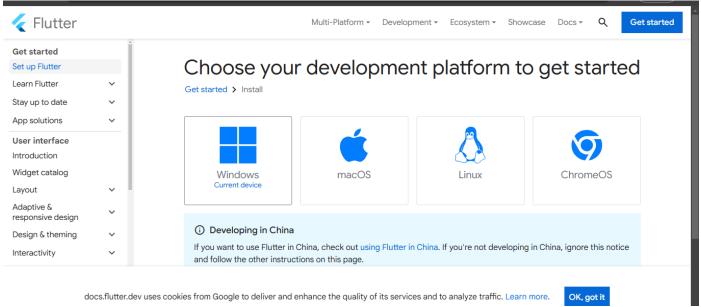
EXPERIMENT NO: - 01

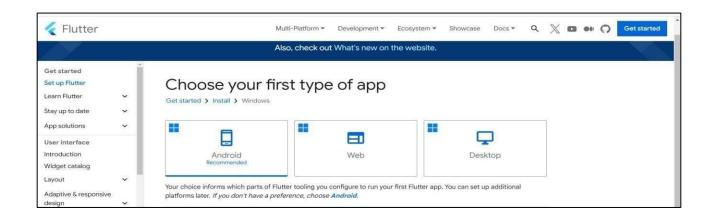
Name:- Snehal Patil Class:- D15A Roll:No: - 38

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

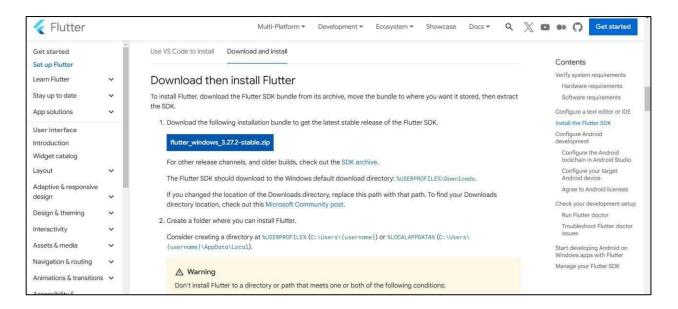
Step 1: Go to the official Flutter website: https://docs.flutter.dev/get-started/install



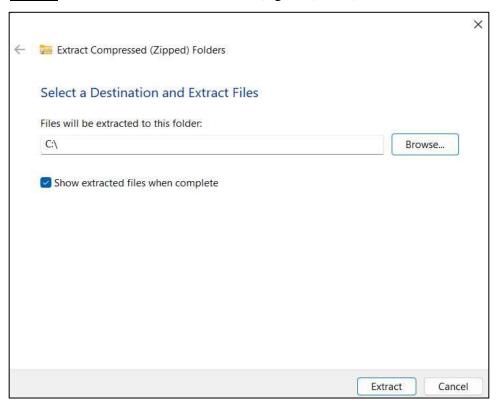
Step 2: To download the latest Flutter SDK, click on the Windows icon > Android



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



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

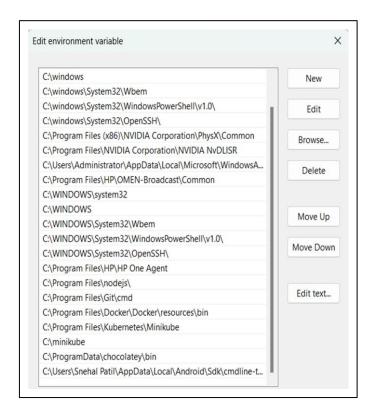


Step 5:- Add Flutter to System PATH

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.

```
Command Prompt
C:\Users\Snehal Patil>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:
                                         Print this usage information.

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.)

Target device id or name (prefixes allowed).

Reports the version of this tool.
 -h, --help
-v, --verbose
 -d, --device-id
       --version
       --enable-analytics
                                          Enable telemetry reporting each time a flutter or dart command runs.
       --disable-anaĺytics
                                          Disable telemetry reporting each time a flutter or dart command runs, until it is
                                           re-enabled
                                          Suppress analytics reporting for the current CLI invocation.
      --suppress-analytics
 Available commands:
Flutter SDK
                              Output command line shell completion setup scripts. List or switch Flutter channels.
   bash-completion
   channel
```

<u>Step 7:-</u> 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\Snehal Patil>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-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
[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 1.96.4)
[/] Connected device (3 available)
[/] Network resources

! Doctor found issues in 1 category.

C:\Users\Snehal Patil>
```

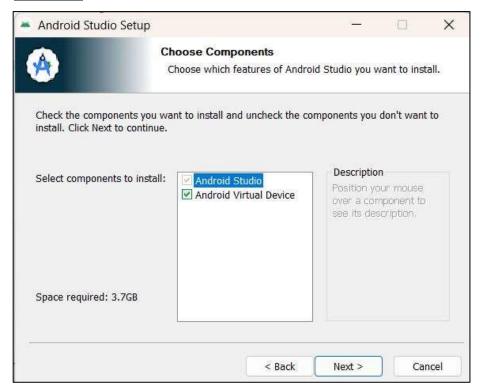
Step 8 : - Go to Android Studio and download the installer.

Platform	Android Studio package	Size	SHA-256 checksum
Windows (64-bit)	android-studio-2024.2,2.13-windows.exe Recommended	1.2 GB	7d93dd9bf3539f948f609b1968507b1f502bf6965d2d44bd38a17ff26cb5dd3e
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	acfbbe54d6ce8cf2tf19b43510c7addcb9dde2824282f205fdt331be77d2e613
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	b7fe1ed4a7959bdaca7a8fd57461dbbf9a205eb23cc218ed828ed88e8b998cb5

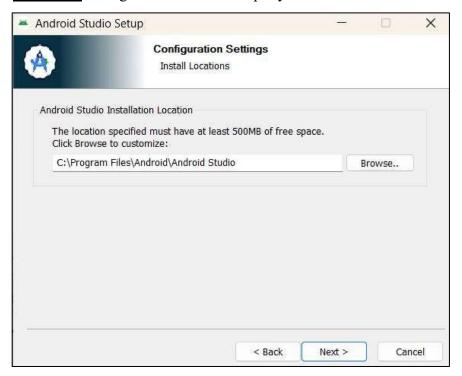
<u>Step 8.1: -</u> When the download is complete, open the .exe file and run it. You will get the following dialog box



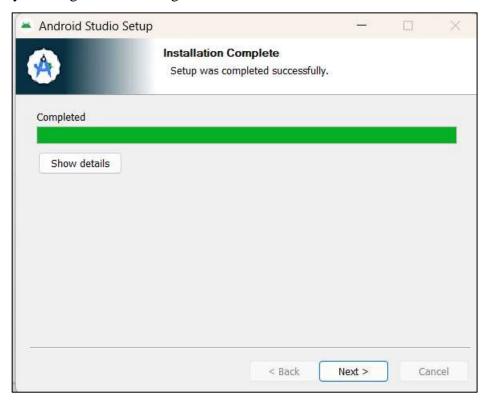
Step 8.2: - Select all the Checkboxes and Click on 'Next' Button.

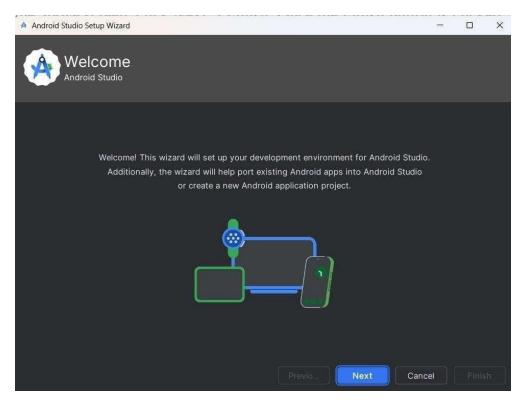


Step 8.3: - Change the destination as per your convenience and click on 'Next' Button.

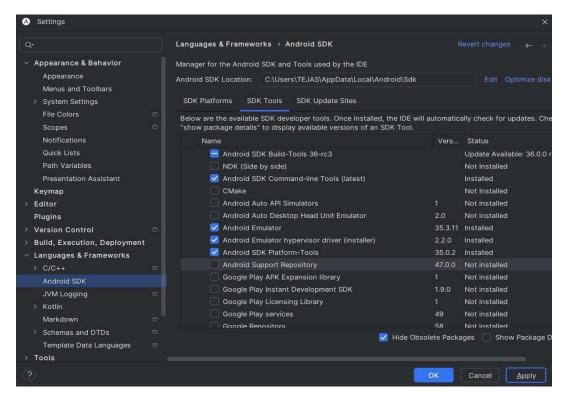


<u>Step 8.4: -</u> Follow the steps of the installation wizard. Once the installation wizard completes, you will get the following screen.



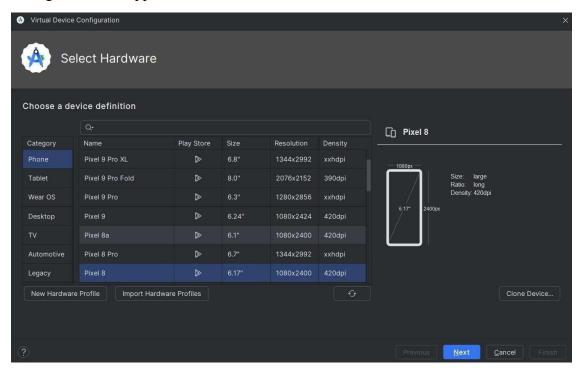


<u>Step 8.5: -</u> Go to Preferences > Appearance & Behavior > System Settings > Android SDK. Select the SDK Tools tab and check Android SDK Command-line Tools and Install it.

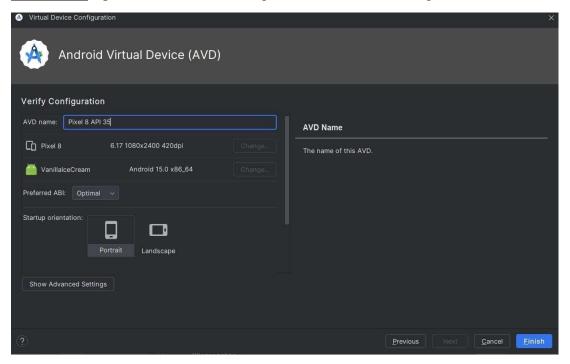


Step 9: - Open a terminal and run the following command

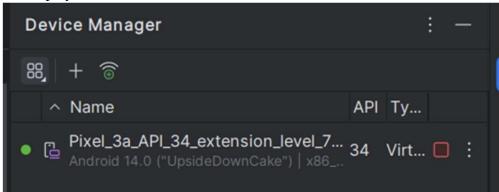
<u>Step 10: -</u> Next, you need to set up an Android emulator. It is responsible for running and testing the Flutter application



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



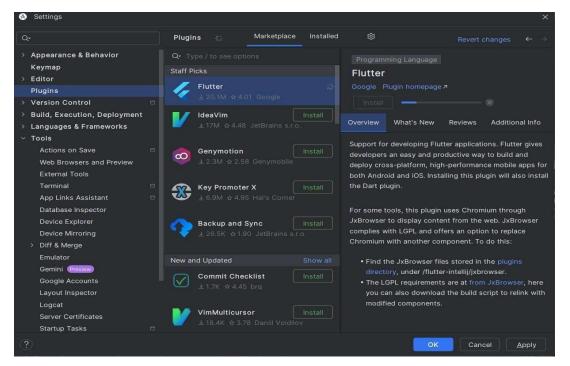
<u>Step 10.2: -</u> Click on the icon pointed into the red color rectangle. The Android emulator displayed as below screen

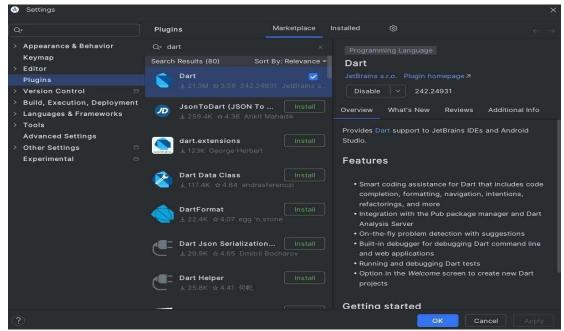




<u>Step 11: -</u> Now, install Flutter and Dart plugin for building Flutter application in Android Studio. These plugins provide a template to create a Flutter application, give an option to run and debug Flutter application in the Android Studio itself

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





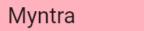
Step 11.2: - Restart the Android Studio

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

Code: -

```
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 Demo',
   theme: ThemeData(
    colorScheme: ColorScheme.fromSeed(seedColor: Colors.pink),
    useMaterial3: true,
   ),
   home: const MyHomePage(title: 'Myntra'), // Title remains 'Myntra'
  );
class MyHomePage extends StatelessWidget {
 const MyHomePage({super.key, required this.title});
final String title;
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(
    backgroundColor: Theme.of(context).colorScheme.inversePrimary,
    title: Text(title),
   ),
   body: const Center(
    child: Text(
     'Hello, Snehal Patil - 38',
     style: TextStyle(fontSize: 16.0, fontWeight: FontWeight.bold),
    ),
   ),
  );
```

OUTPUT:



Hello, Snehal Patil - 38

