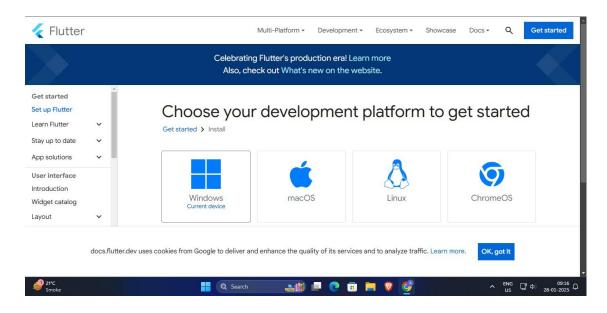
## **EXPERIMENT 1**

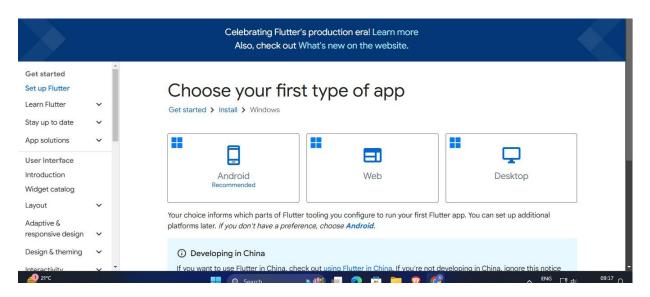
Aim: Installation and Configuration of Flutter Environment.

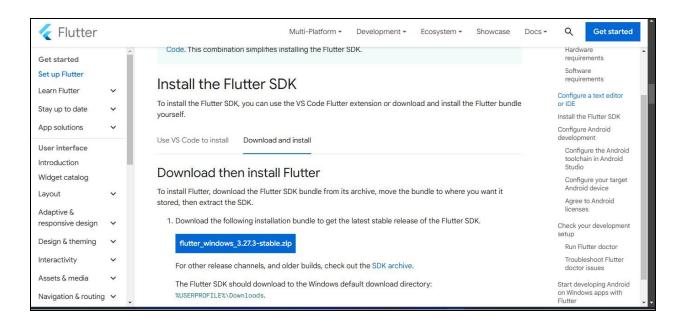
## Steps:

Step 1: Download the installation bundle of the Flutter Software Development Kit for windows. To download Flutter SDK, Go to its official website https://docs.flutter.dev/get-started/install, you will get the following screen.

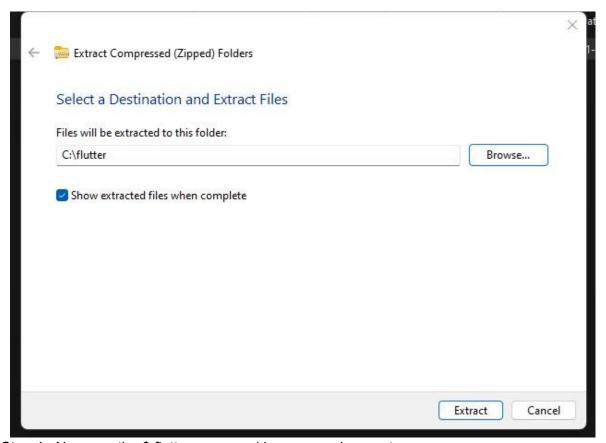


Step 2: Next, to download the latest Flutter SDK, click on the Windows icon and then select Android. Here, you will find system requirements and the download link for SDK.





Step 3: When your download is complete, extract the zip file and place it in the desired installation folder or location, for example, C: /Flutter. (Here I have created Flutter folder in C drive and inside that created src folder and extracted in it.)



Step 4: Now, run the \$ flutter command in command prompt.

```
licrosoft Windows [Version 10.0.26100.2894]
(c) Microsoft Corporation. All rights reserved.
C:\Users\varya>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
-v, --verbose
                                 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.
 -d, --device-id
     --version
     --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.
```

Step 5: Now, 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: When you run the above command, it will analyze the system and show its report, as shown in the below image. Here, you will find the details of all missing tools, which required to run Flutter as well as the development tools that are available but not connected with the device.

```
C:\Users\varya>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)

[/] Chrome - develop for the web

[/] Visual Studio - develop Windows apps (Visual Studio Community 2022 17.12.4)

[/] Android Studio (version 2024.2)

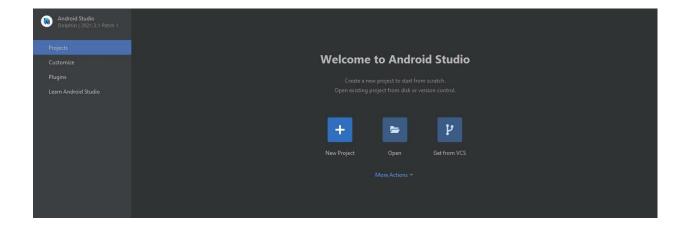
[/] VS Code (version 1.96.4)

[/] Connected device (3 available)

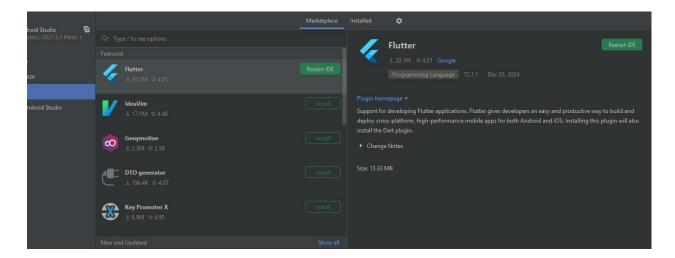
[/] Network resources
```

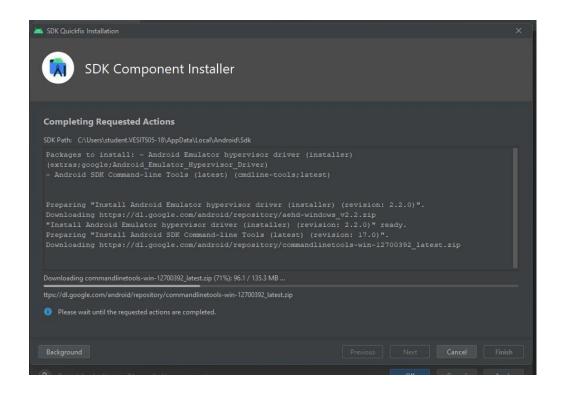
Step 6: Install the Android SDK. If the flutter doctor command does not find the Android SDK tool in your system, then you need first to install the Android Studio IDE. To install Android Studio IDE, do the following steps.

Step 7 : Download the latest Android Studio executable or zip file from the official site by accepting terms and conditions



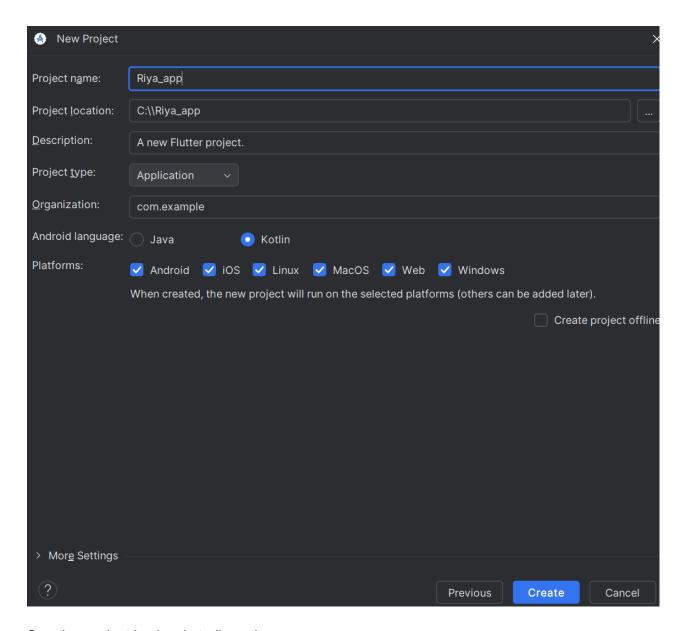
Now open android studio you will see the following window. Click on more actions-> Import an android code Sample -> select Android SDK command-line tools (latest) this will download command-line tools.





If you want you can create the project in Android Studio or Visual Studio code To create the project in Android studio:

## Riya Varyani 61 D15A



## Creating project in visual studio code:

- >flutter create myapp
- >cd myapp
- >flutter run

```
import 'package:flutter/material.dart';

void main() {
    runApp(const MyApp());
}

class MyApp extends StatelessWidget {
    const MyApp({super.key});

// This widget is the root of your application.

@override

Widget build(BuildContext context) {

return MaterialApp(
    title: 'Flutter Demo',
    theme: ThemeData(

// This is the theme of your application.

//

// TRY THIS: Try running your application with "flutter run". You'll see
    // the application has a purple toolbar. Then, without quitting the app,
    // try changing the seedColor in the colorScheme below to Colors.green
    // and then invoke "hot reload" (save your changes or press the "hot
    // reload" button in a Flutter-supported IDE, or press "r" if you used
    // the command line to start the app).
    //

// Notice that the counter didn't reset back to zero; the application
```

```
colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepPurple),
       useMaterial3: true,
     home: const MyHomePage(title: 'Flutter Demo Home Page'),
   ); // MaterialApp
class MyHomePage extends StatefulWidget {
 const MyHomePage({super.key, required this.title});
 // always marked "final".
 final String title;
 @override
 State<MyHomePage> createState() => _MyHomePageState();
```

You can view the project as follow:

