

EXP 1 MAD PWD LAB

Aim: Flutter and android studio code installation along with sample program.

Step 1: Install flutter and android sdk from <https://docs.flutter.dev/get-started/install>

The screenshot shows the Flutter documentation website. The main heading is "Download then install Flutter". The instructions are as follows:

- Download the following installation bundle to get the latest stable release of the Flutter SDK.
flutter_windows_3.16.7-stable.zip
For other release channels, and older builds, check out the [SDK archive](#).
This guide presumes that you downloaded your Flutter SDK to the default download directory for Windows: `%CSIDL_DEFAULT_DOWNLOADS%\`.
- Create a folder where you can install Flutter.
Consider `%USERPROFILE%\` or `C:\dev`.

A warning box states: "Warning: Don't install Flutter to a directory or path that meets one or both of the following conditions:

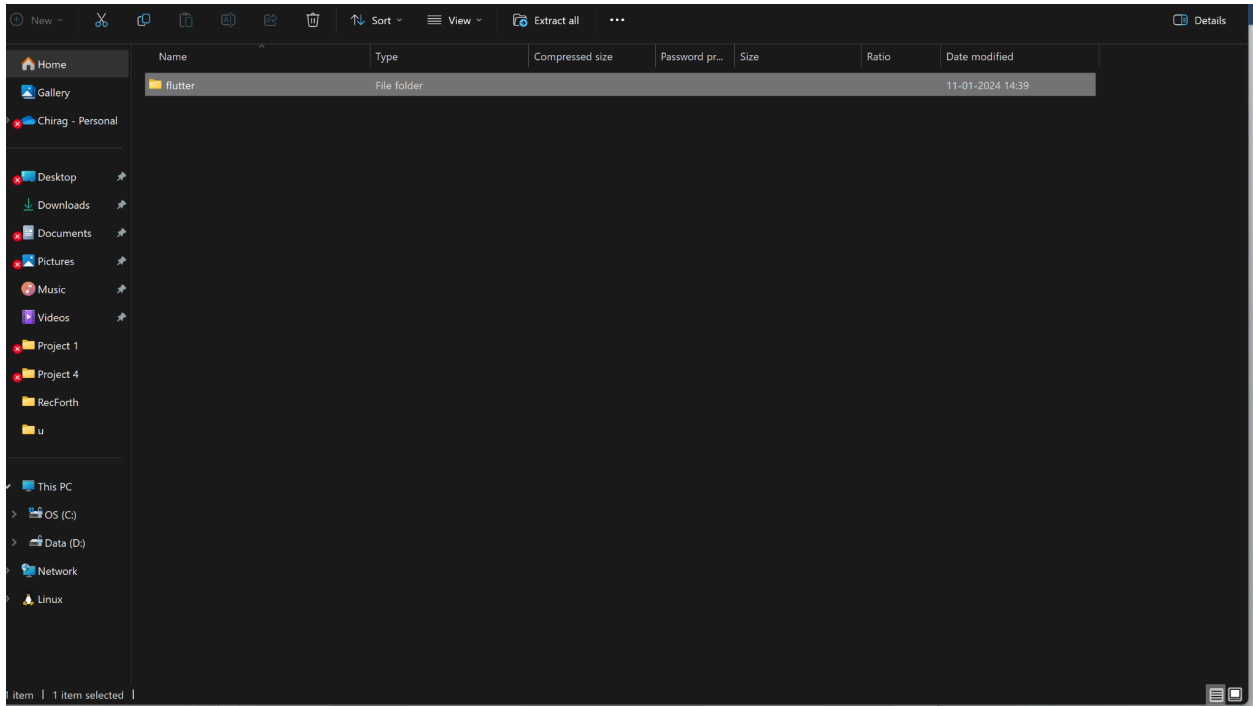
- The path contains special characters or spaces.
- The path requires elevated privileges.

As an example, `C:\Program Files\` fails both conditions.

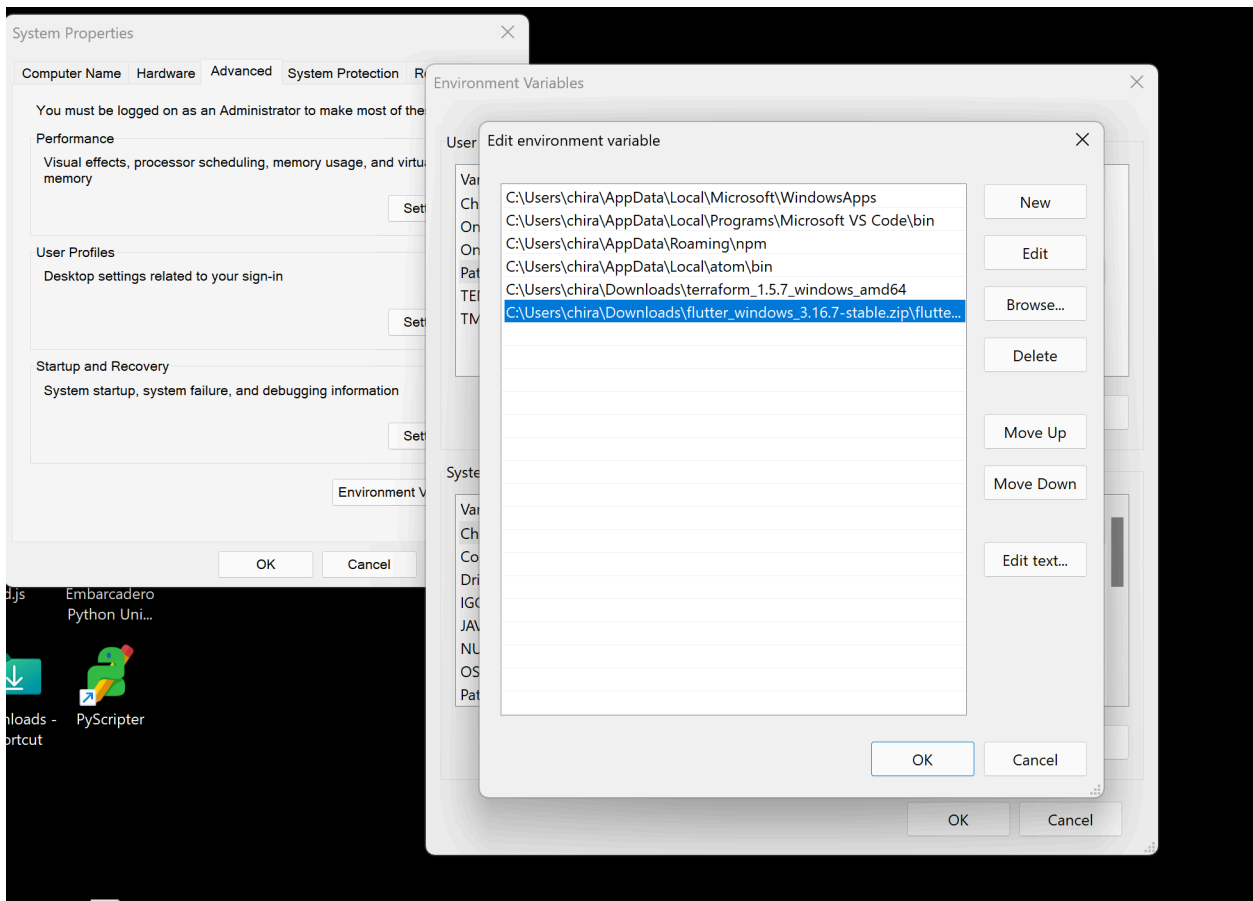
On the right sidebar, there are links for: Hardware requirements, Software requirements, Configure a text editor or IDE, Install the Flutter SDK, Check your development setup, Run Flutter doctor, and Troubleshoot Flutter doctor issues.

At the bottom, there is a Google cookie notice and an "Okay" button.

Step 2: extract the zip file in folder



Step 3: Change the environment variables for flutter configuration



Step 4: run flutter and flutter doctor commands on command prompt

```
C:\Users\chira>flutter doctor
Terminate batch job (Y/N)? y

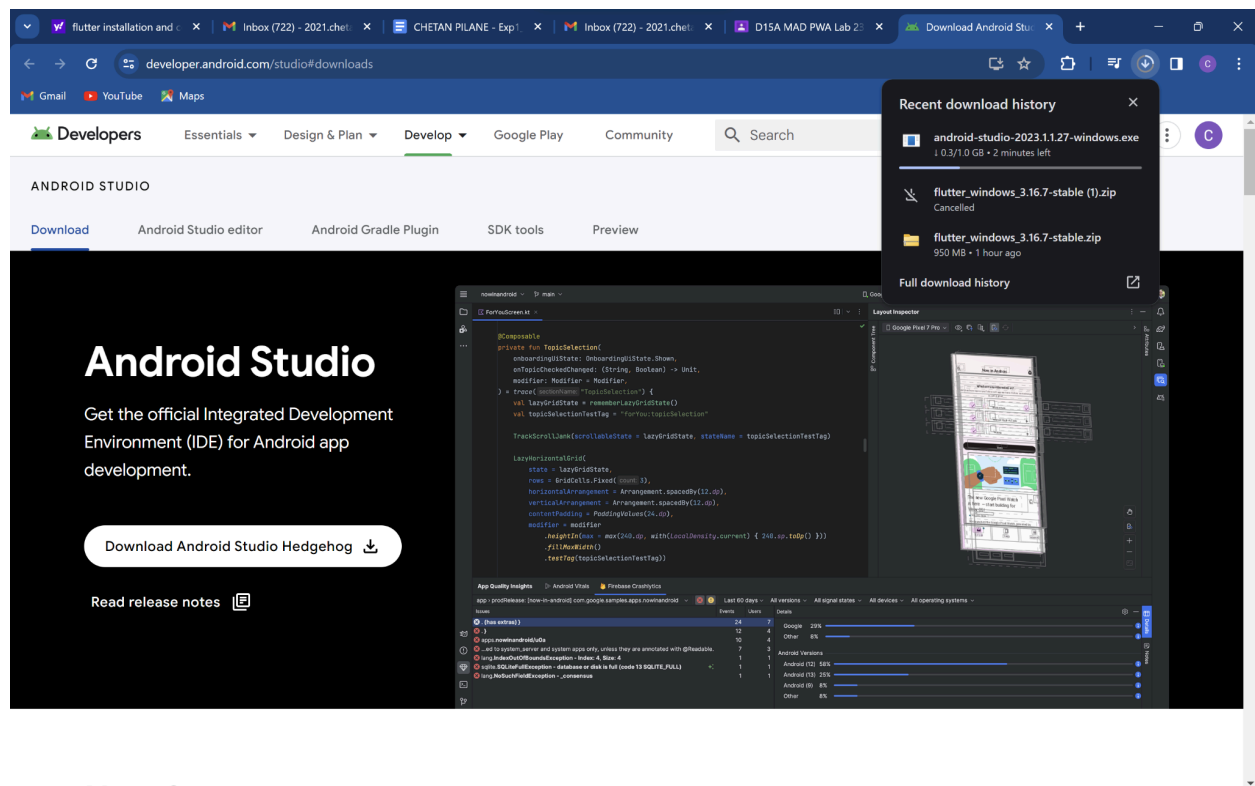
C:\Users\chira>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.16.7, on Microsoft Windows [Version 10.0.22621.2861], locale en-IN)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[X] Android toolchain - develop for Android 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/docs/get-started/install/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.

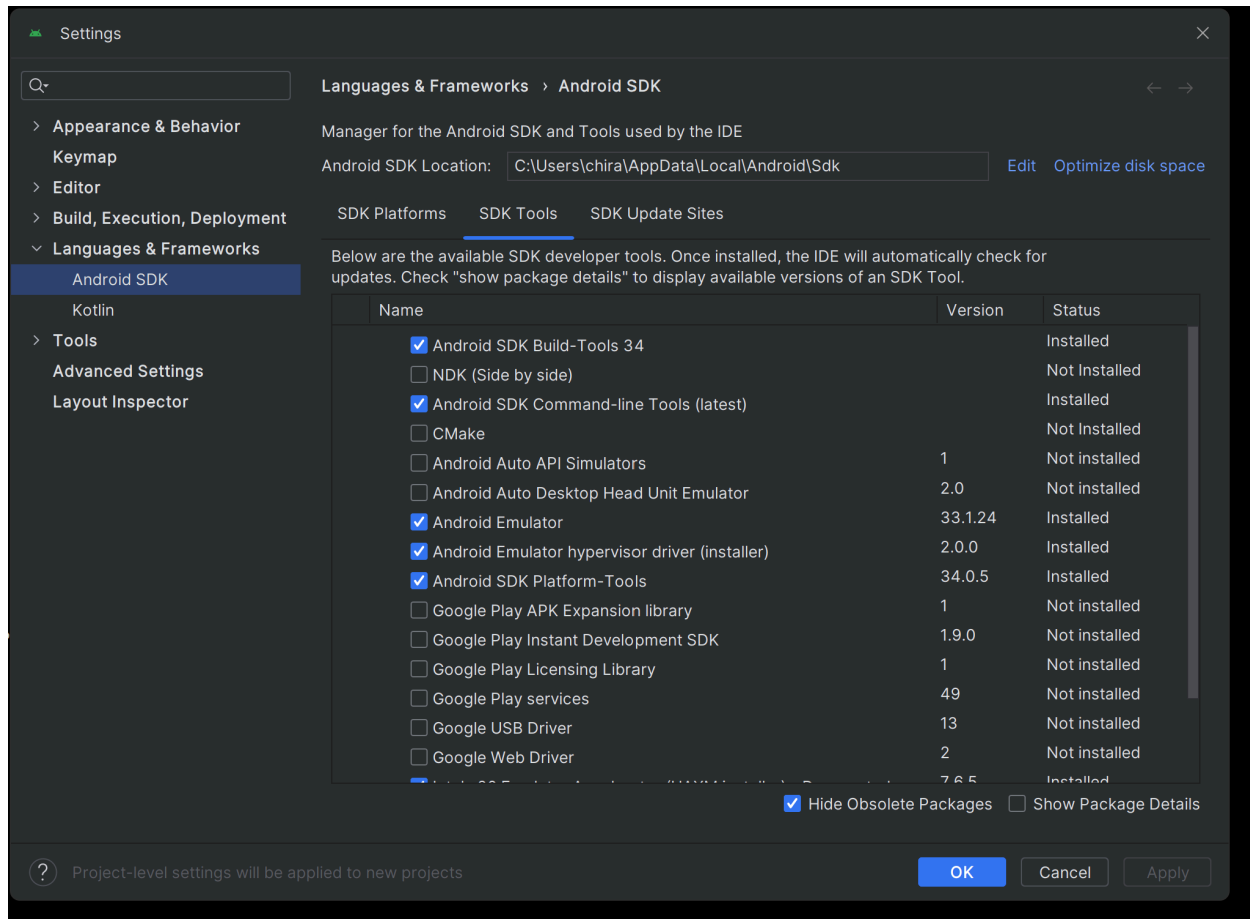
[✓] Chrome - develop for the web
[✓] Visual Studio - develop Windows apps (Visual Studio Build Tools 2019 16.11.29)
    X The current Visual Studio installation is incomplete.
      Please use Visual Studio Installer to complete the installation or reinstall Visual Studio.
[✓] Android Studio (not installed)
[✓] VS Code (version 1.85.1)
[✓] Connected device (3 available)
[✓] Network resources

! Doctor found issues in 3 categories.

C:\Users\chira>
```

Step 5: Install android studio code





Step 6:write flutter code

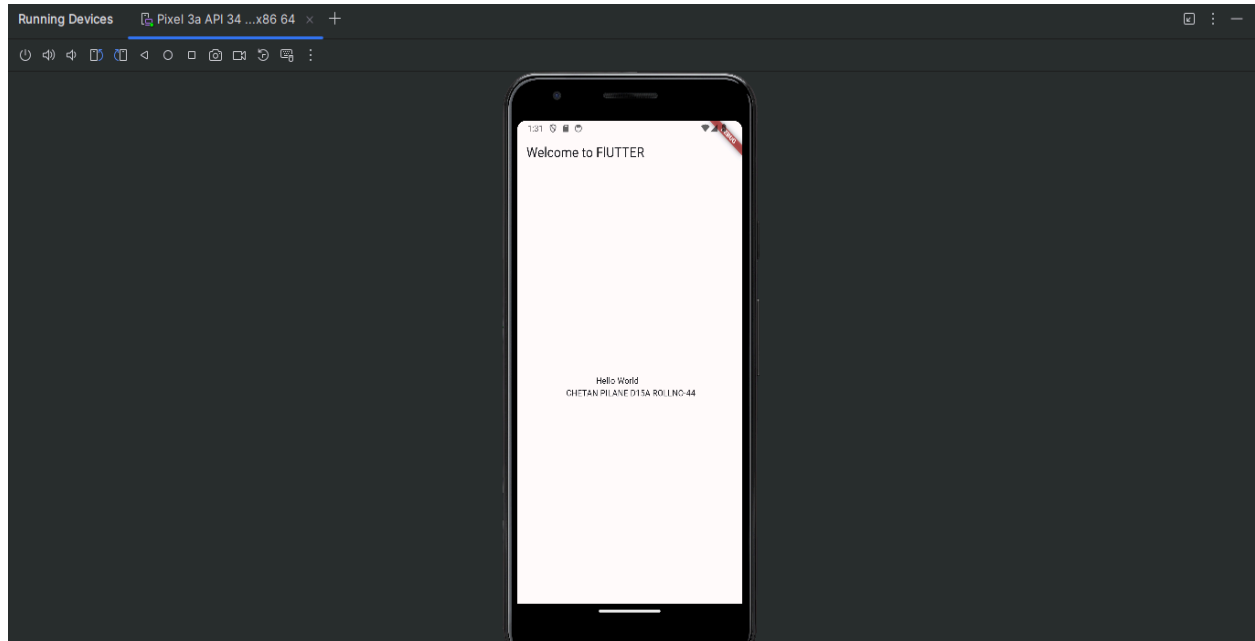
On android studio code after installing dart plugin.

Flutter code:

```
import 'package:flutter/material.dart';
void main() {
  runApp(const MyApp());
}
class MyApp extends StatelessWidget {
  const MyApp({Key? key}) : super(key: key);
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Welcome to Flutter',
      home: Scaffold(
        appBar: AppBar(
          title: const Text('Welcome to FLUTTER'),
        ),
        body: const Center(
          child: Text('
                                Hello World \n CHETAN PILANE D15A
                                ROLLNO-44'),
        ),
      ),
    );
  }
}
```

```
    ),  
  ),  
);  
}  
}
```

Flutter output:Hello world program



Conclusion: Successfully installed android studio,flutter and configured flutter to write sample program.