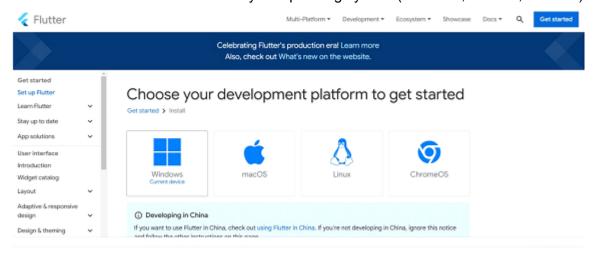
MPL Experiment 1

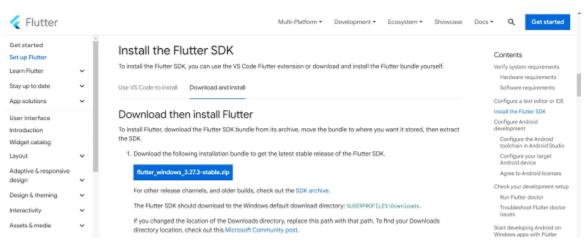
Name: Sneha Patra Class: D15A Roll no:40

Aim: Installation and Configuration of Flutter Environment.

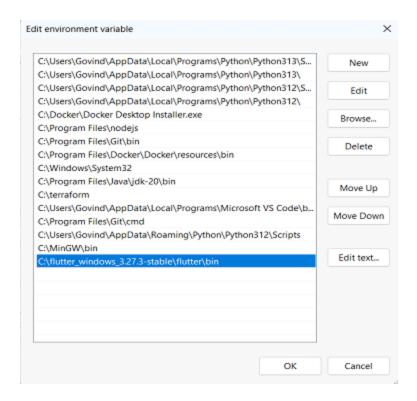
Step 1: Install Flutter

- Download Flutter SDK from the official Flutter website (https://flutter.dev/).
- Download the Flutter SDK for your operating system (Windows, macOS, or Linux).





- Extract the downloaded zip file to a preferred location on your computer (e.g., C:\src\flutter for Windows).
- Add Flutter to the PATH
- Locate the flutter\bin directory in the extracted Flutter folder.
- Add this directory to your system's PATH environment variable.



Verify the Installation

- Open a terminal or command prompt.
- Run the command: flutter and flutter doctor.

```
Microsoft Windows [Version 10.0.22631.4751]
(c) Microsoft Corporation. All rights reserved.

C:\Users\User>\flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[// Flutter (Channel stable, 3.27.1, on Microsoft Windows [Version 10.0.22631.4751], locale en-IN)
[// Flutter (Channel stable, 3.27.1, on Microsoft Windows [Version 10.0.22631.4751], locale en-IN)
[// Windows Version (the doctor check crashed)

X Due to an error, the doctor check did not complete. If the error message below is not helpful, please let us know about this issue at https://gituble.com/flutter/flutter/issues.

X ProcessException: Failed to find "powershell" in the search path.

Command: powershell
[// Android toolchain - develop for Android devices (Android SDK version 34.0.0)
[// Chrome - develop for the web
[X] Visual Studio - develop Windows apps

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/.

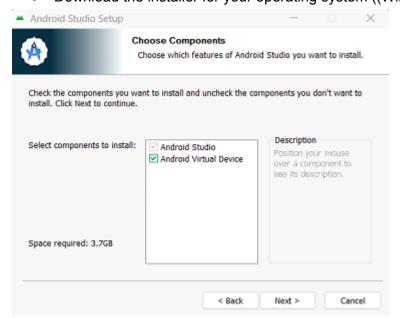
Please install the "Desktop development with C++" workload, including all of its default components
[// Android Studio (version 2023.3)
[// VS Code (version 1.96.4)
[// Connected device (4 available)
[// Network resources
] Doctor found issues in 2 categories.

C:\Users\User>\User>
```

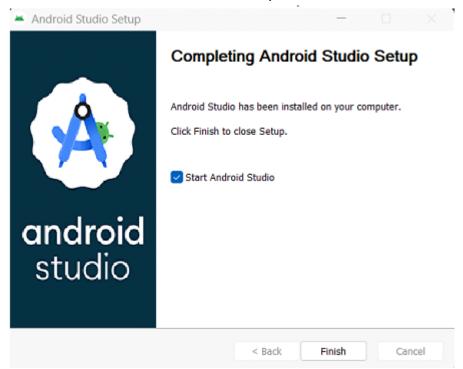


Step 2: Install Android Studio

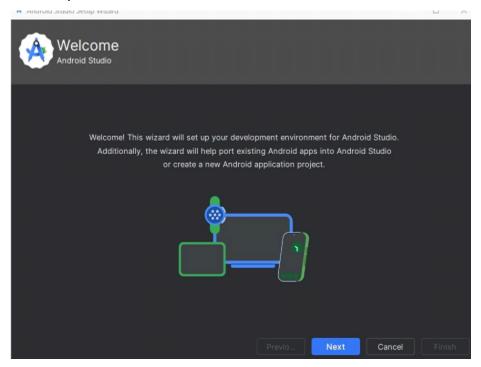
- Download Android Studio
- Go to the Android Studio website. (https://developer.android.com/studio)
- Download the installer for your operating system ((Windows, macOS, or Linux)).



- Run the installer and follow the setup wizard.
- Choose the standard installation option.

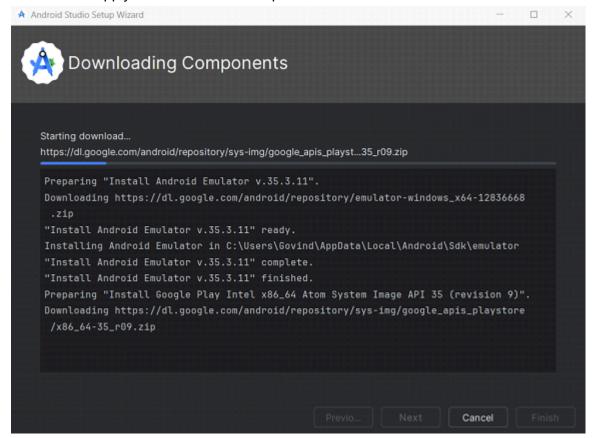


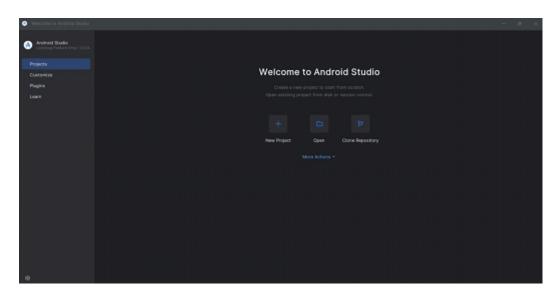
- Install Android SDK Tools
- Open Android Studio.



• Go to Settings/Preferences > Appearance & Behavior > System Settings > Android SDK.

- Select the latest Android API level.
- Ensure "Android SDK Platform" and "Android Virtual Device (AVD)" are selected.
- Click "Apply" and wait for the components to install.

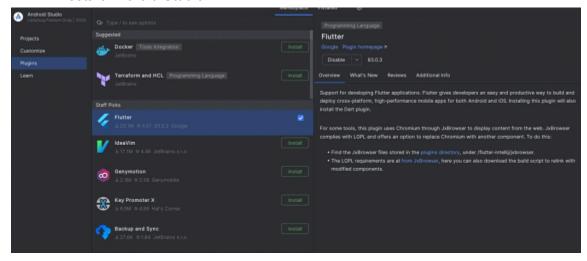




Step 3: Connect Flutter with Android Studio

- Install Flutter and Dart Plugins
- Open Android Studio. Go to File > Settings (Windows/Linux) > Plugins.

- Search for "Flutter" and click "Install." Dart will be installed automatically.
- Restart Android Studio.



Step 4: Create a New Flutter Project

- Click on New Flutter Project.
- Enter project details and select the Flutter SDK path.
- Click "Finish" to create the project.
- Connect the USB to the device and run the flutter application.

NOTE: In your mobile device, make sure the USB debugging is turned on.

Code:

```
class _MyHomePageState extends State<MyHomePage> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
          backgroundColor: Theme.of(context).colorScheme.inversePrimary,
          title: Text(widget.title),
      ),
      body: Column(
      children: [
      const Padding(
          padding: EdgeInsets.all(16.0),
      child: Text(
          'Welcome Back',
          style: TextStyle(
          fontSize: 24,
          fontWeight: FontWeight.bold,
          ),
      ),
      ),
      const Spacer(),
```

```
const Padding(
    padding: EdgeInsets.all(20.0),
    child: Text(
        'Hello Sneha Patra',
        style: TextStyle(
            fontSize: 32,
            color: Colors.blue,
             fontWeight: FontWeight.w500,
        ),
        ),
        const Spacer(),
        ],
    ),
}
```



Conclusion: Hello World, is successfully run on the flutter app.