

MPL Experiment 1

Name: Sneha Patra

Class: D15A

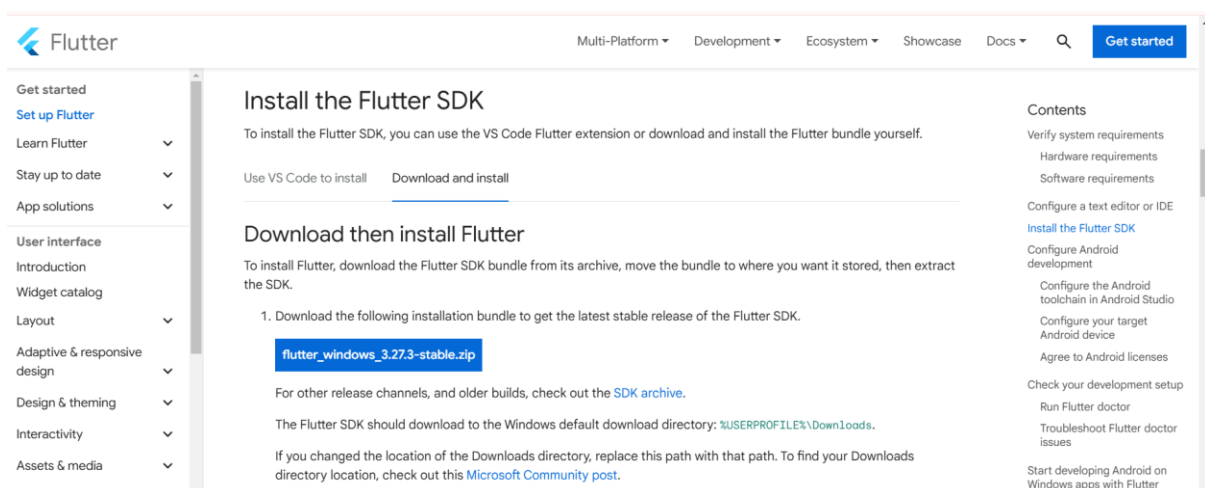
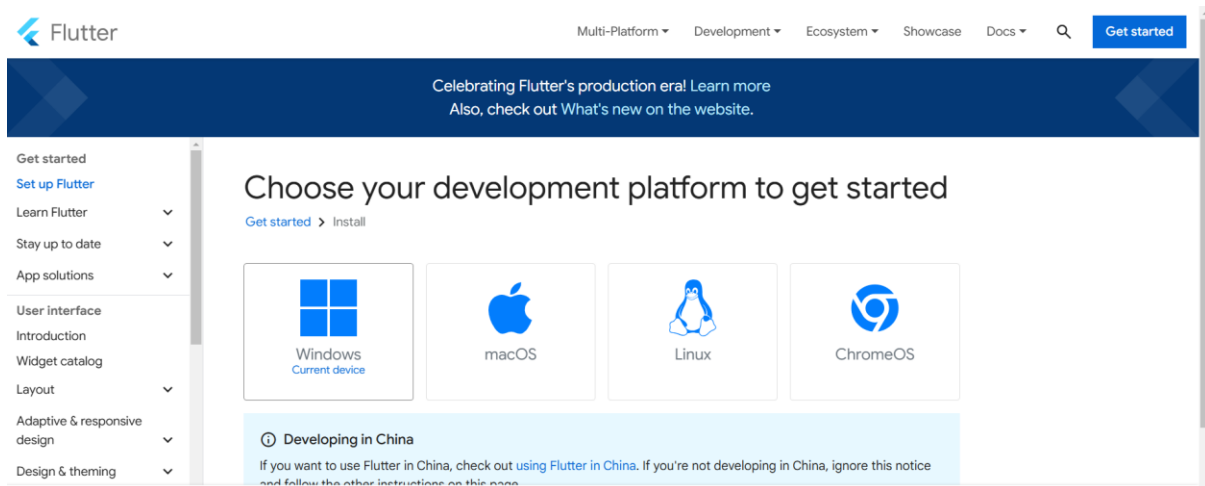
Roll No: 41

Aim: Installation and Configuration of Flutter Environment.

Step 1: Install Flutter

1. Download Flutter SDK

- Go to the official Flutter website.
- Click on "Get Started."
- Download the appropriate Flutter SDK for your operating system (Windows, macOS, or Linux).



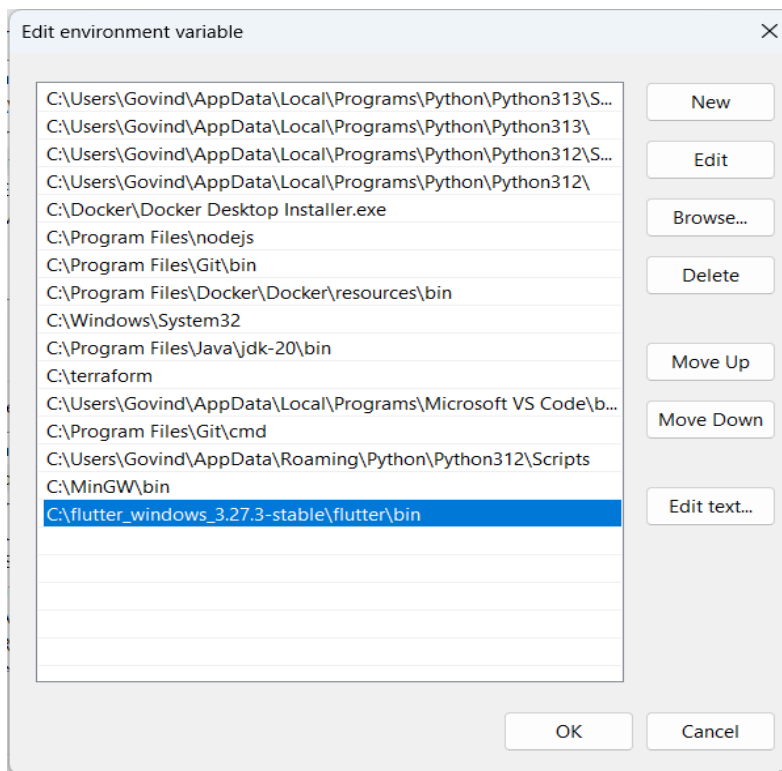
2. Extract the Flutter SDK

- Extract the downloaded zip file to a preferred location on your computer (e.g., C:\src\flutter for Windows).

3. 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.

- Windows: Go to Environment Variables > Edit Path > Add the path to flutter\bin.



4. Verify the Installation

- Open a terminal or command prompt.
- Run the command: flutter and flutter doctor.
- Follow any additional setup instructions displayed in the output.

```

Microsoft Windows [Version 10.0.22631.4692]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Govind>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                Print this usage information.
-v, --verbose              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.)
-d, --device-id            Target device id or name (prefixes allowed).
--version                 Reports the version of this tool.
--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.

Available commands:

Flutter SDK
bash-completion          Output command line shell completion setup scripts.
channel                  List or switch Flutter channels.
config                   Configure Flutter settings.
doctor                   Show information about the installed tooling.
downgrade                Downgrade Flutter to the last active version for the current channel.
precache                 Populate the Flutter tool's cache of binary artifacts.
upgrade                  Upgrade your copy of Flutter.

Project
analyze                  Analyze the project's Dart code.
  
```

```
Command Prompt - flutter  x  +  v

Welcome to Flutter! - https://flutter.dev

The Flutter tool uses Google Analytics to anonymously report feature usage
statistics and basic crash reports. This data is used to help improve
Flutter tools over time.

Flutter tool analytics are not sent on the very first run. To disable
reporting, type 'flutter config --no-analytics'. To display the current
setting, type 'flutter config'. If you opt out of analytics, an opt-out
event will be sent, and then no further information will be sent by the
Flutter tool.

By downloading the Flutter SDK, you agree to the Google Terms of Service.
The Google Privacy Policy describes how data is handled in this service.

Moreover, Flutter includes the Dart SDK, which may send usage metrics and
crash reports to Google.

Read about data we send with crash reports:
https://flutter.dev/to/crash-reporting

See Google's privacy policy:
https://policies.google.com/privacy

To disable animations in this tool, use
'flutter config --no-cli-animations'.

The Flutter CLI developer tool uses Google Analytics to report usage and diagnostic
data along with package dependencies, and crash reporting to send basic crash
reports. This data is used to help improve the Dart platform, Flutter framework,
and related tools.

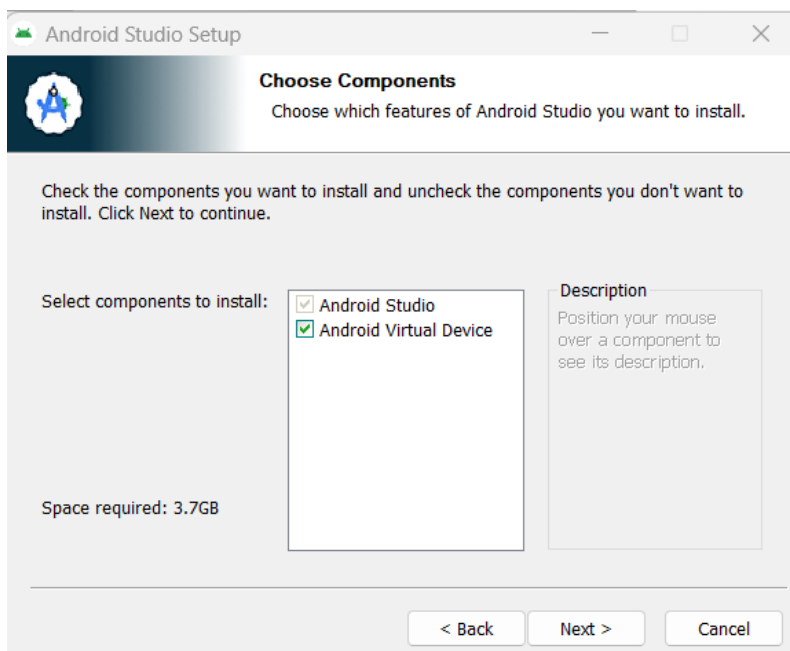
Telemetry is not sent on the very first run. To disable reporting of telemetry,
run this terminal command:

  flutter --disable-analytics

If you opt out of telemetry, an opt-out event will be sent, and then no further
```

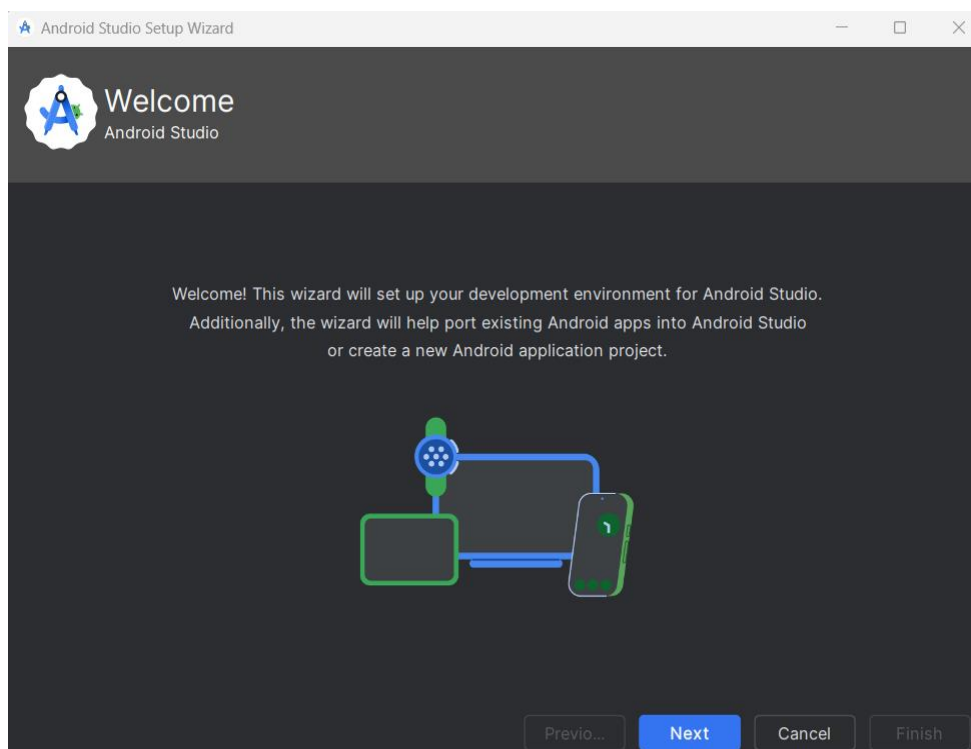
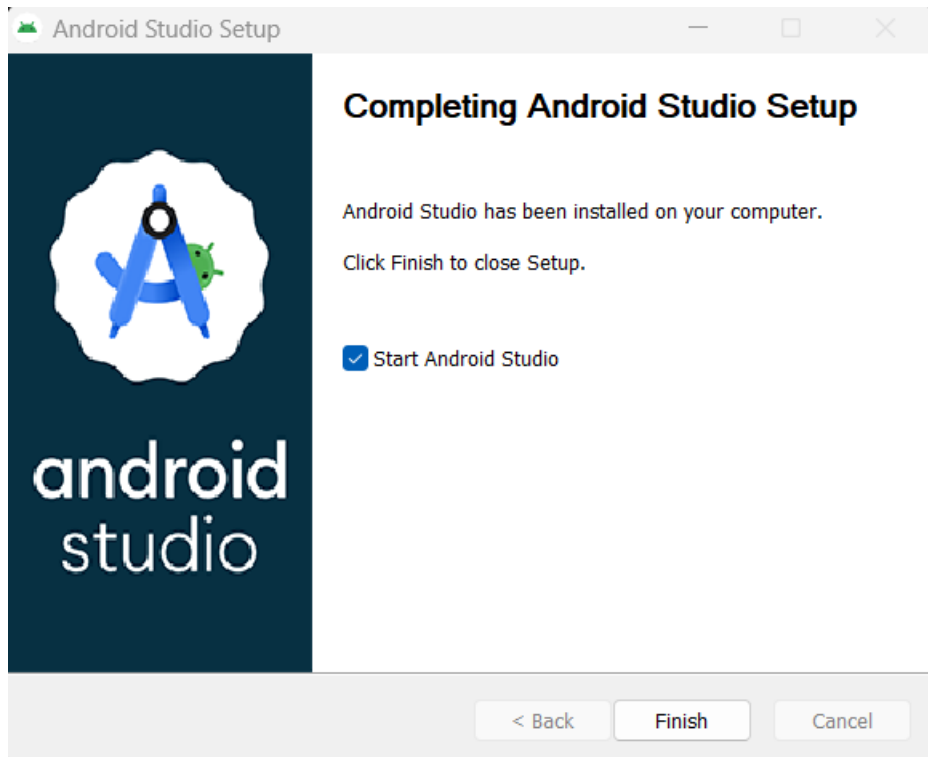
Step 2: Install Android Studio

1. Download Android Studio
 - Go to the Android Studio website.
 - Download the installer for your operating system.



2. Install Android Studio

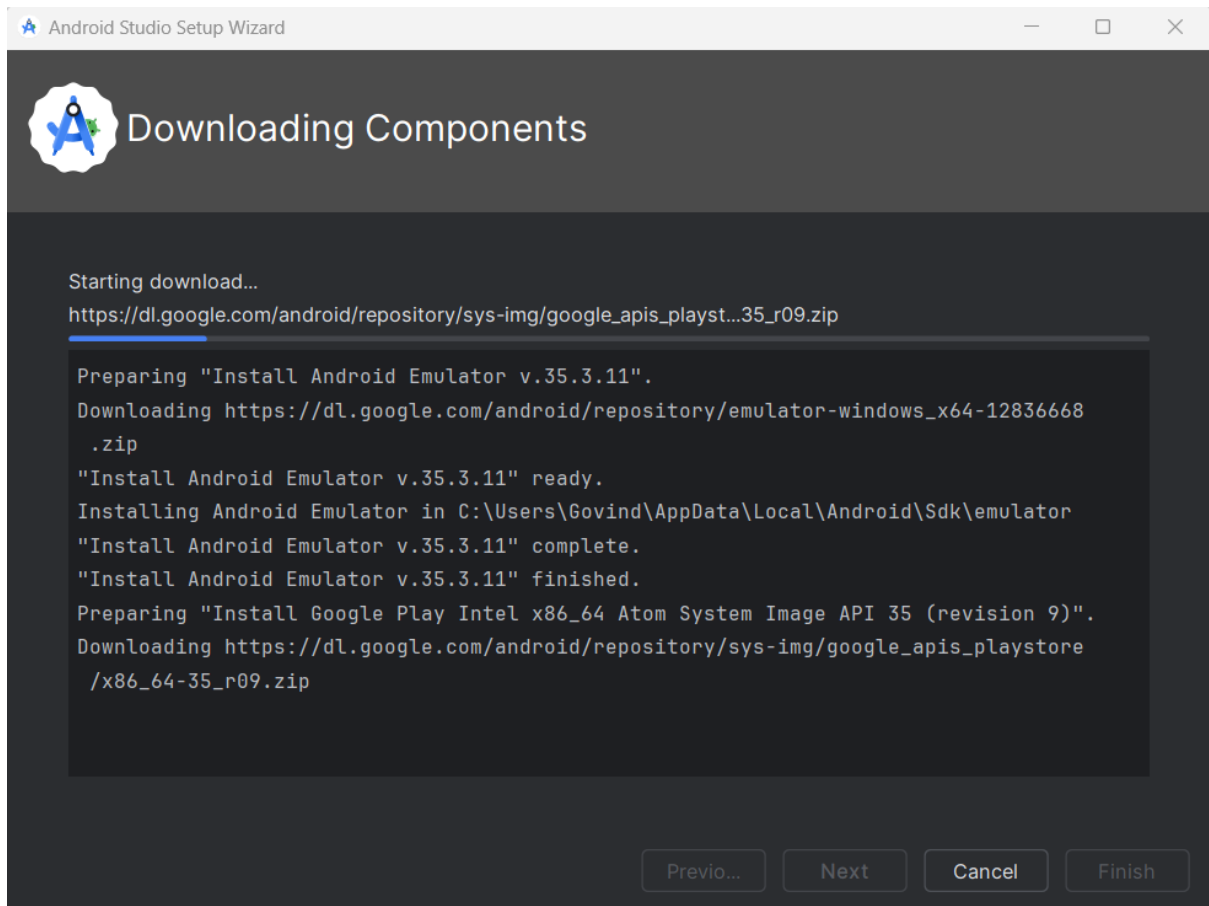
- Run the installer and follow the setup wizard.
- Choose the standard installation option.



3. Install Android SDK Tools

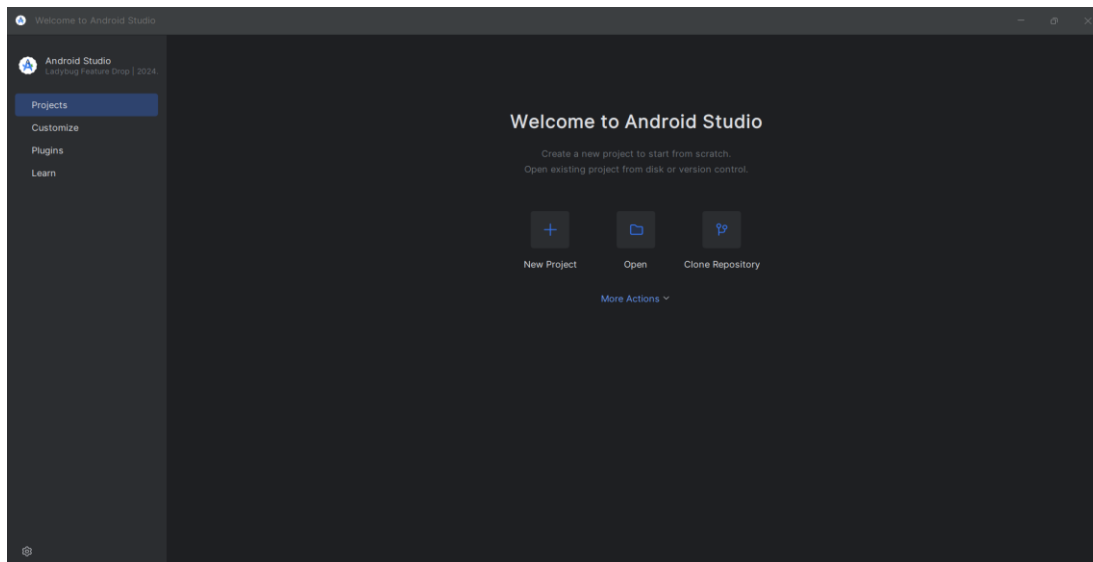
- Open Android Studio.

- 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.



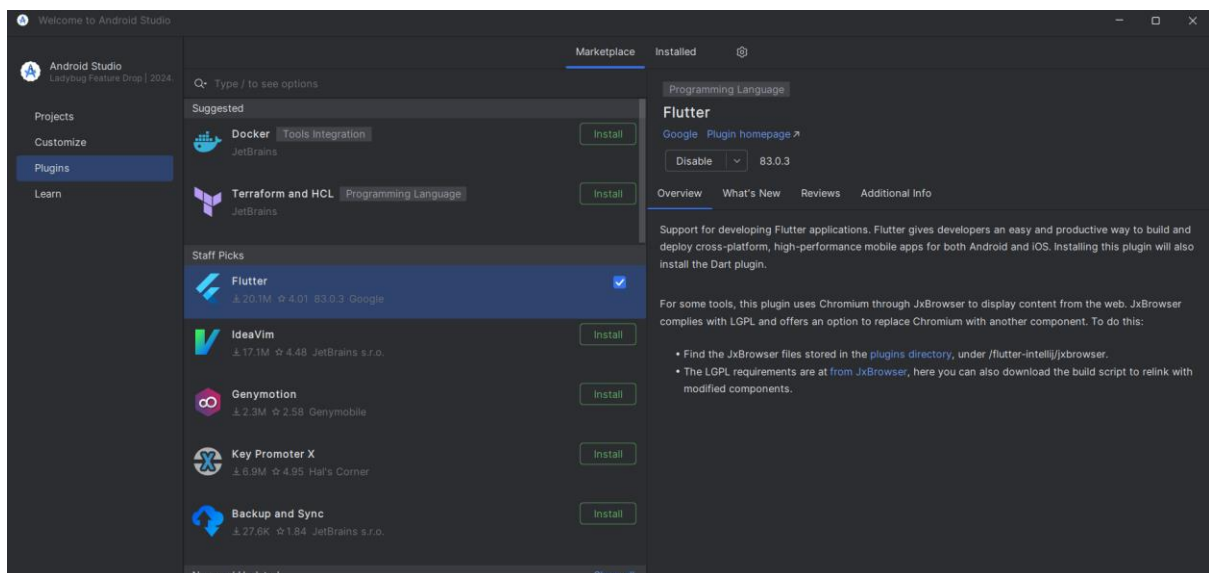
4. Set Up Android Emulator

- Go to **Tools > Device Manager**.
- Click "Create Device."
- Select a hardware profile and system image.
- Configure the emulator and click "Finish."



Step 3: Connect Flutter with Android Studio

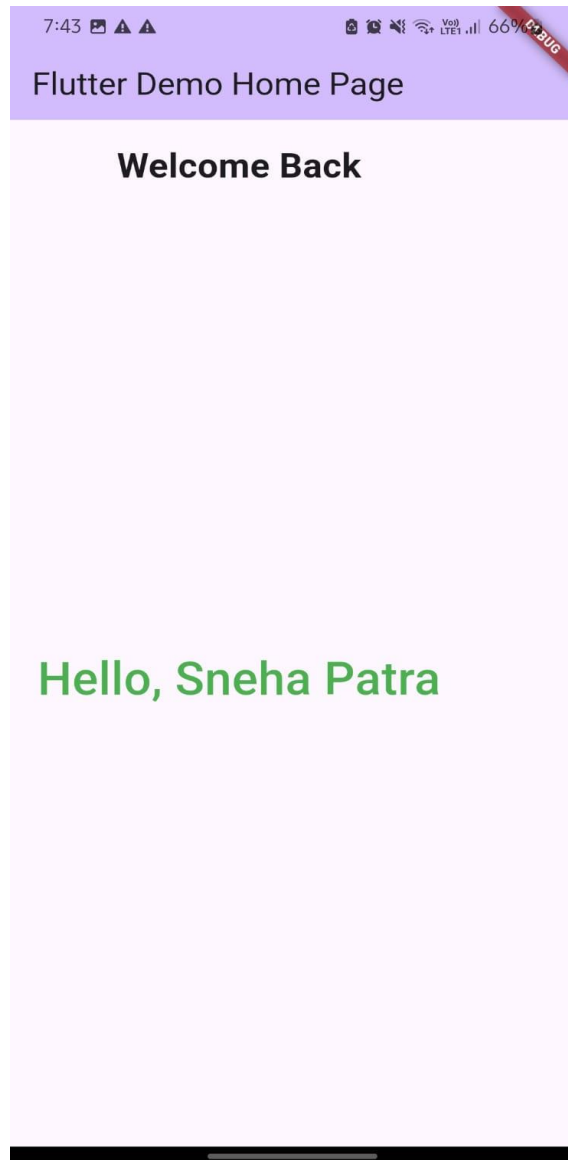
- Install Flutter and Dart Plugins
- Open Android Studio.
- Go to File > Settings (Windows/Linux) or Android Studio > Preferences (macOS).
- Navigate to Plugins.
- Search for "Flutter" and click "Install." Dart will be installed automatically.
- Restart Android Studio.



Step 4: Test Flutter Installation

- Create a New Flutter Project
- Open Android Studio.
- Click on New Flutter Project.

- Enter project details and select the Flutter SDK path.
- Click "Finish" to create the project.



Conclusion: Flutter and Android Studio setup is now completed.

