

Name - Sejal Maurya
Roll No - 35

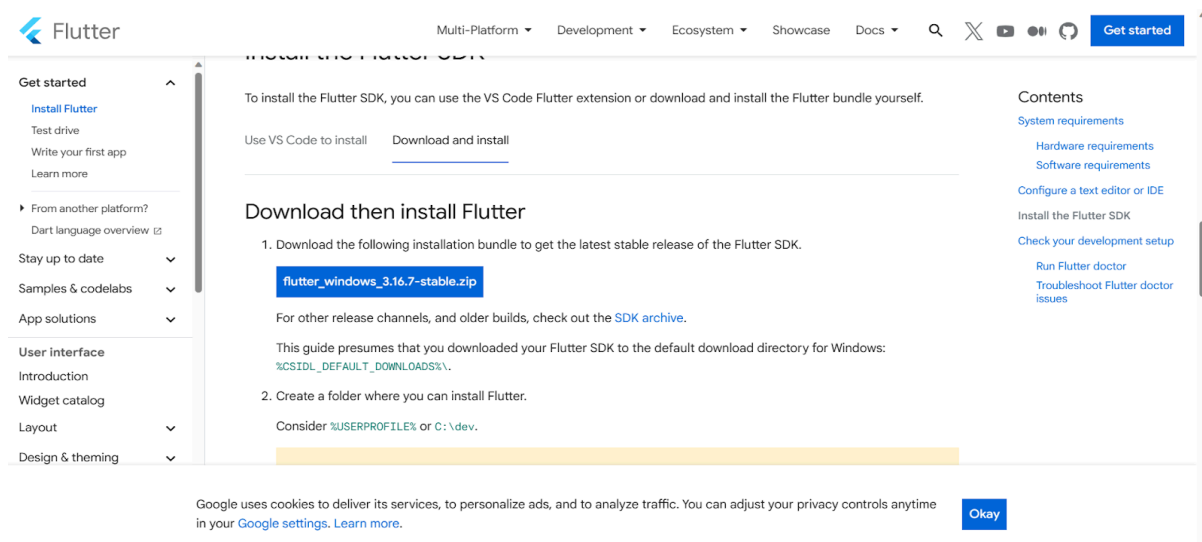
Div -D15A
Batch -B

EXPERIMENT NO - 01

Installation and Configuration of Flutter Environment.

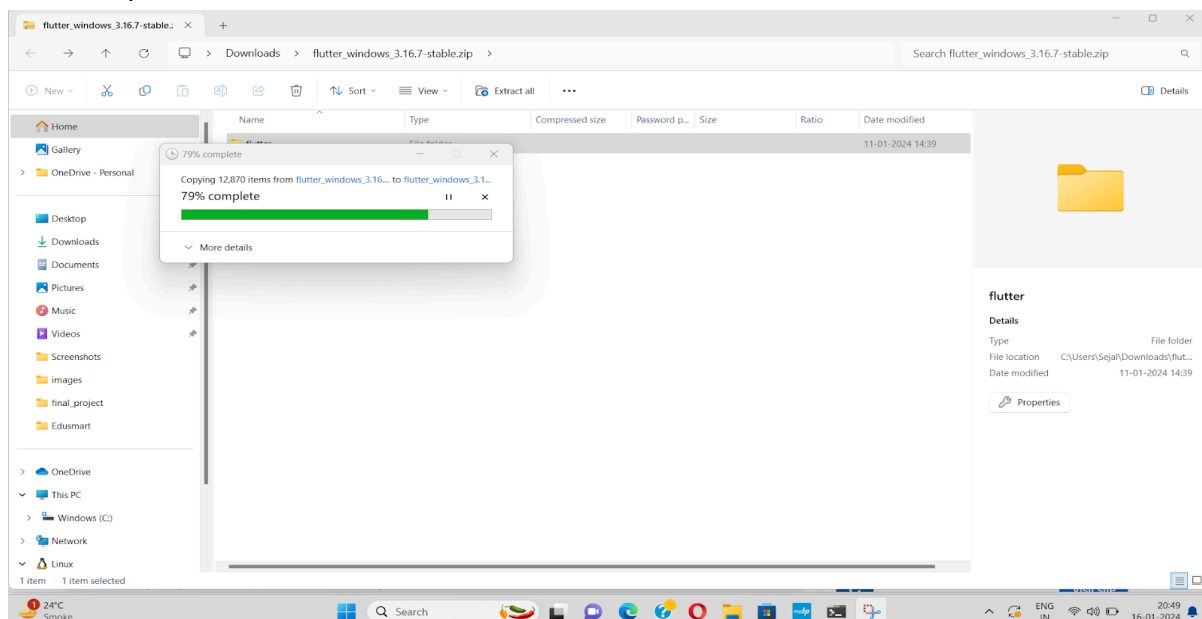
Steps

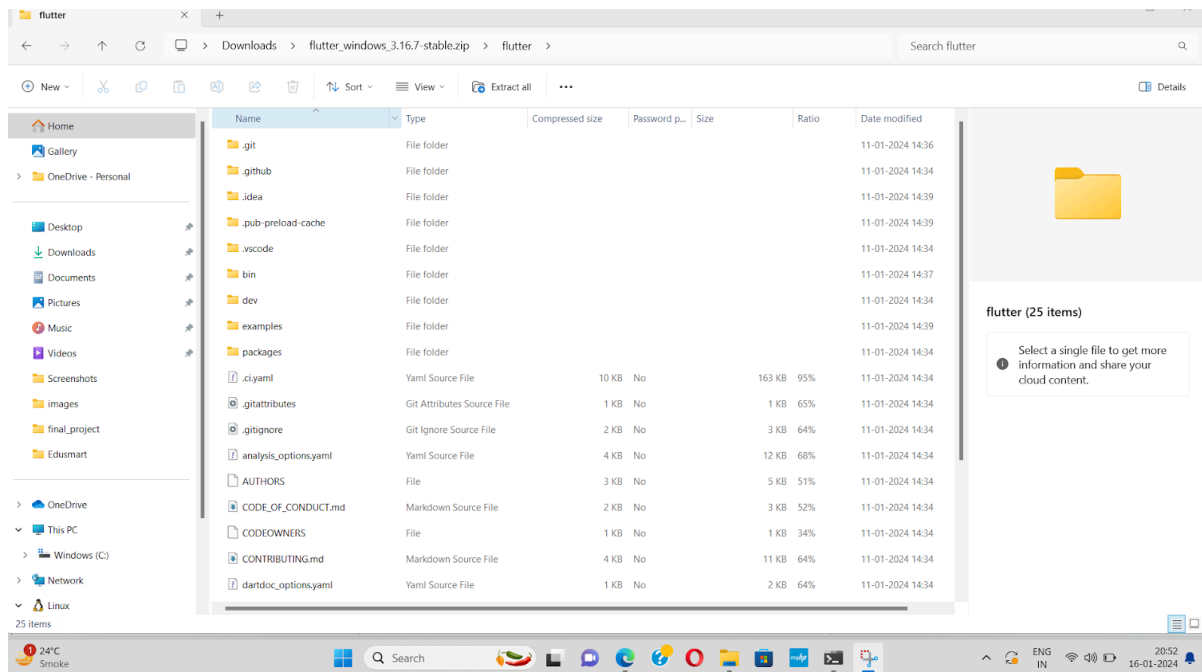
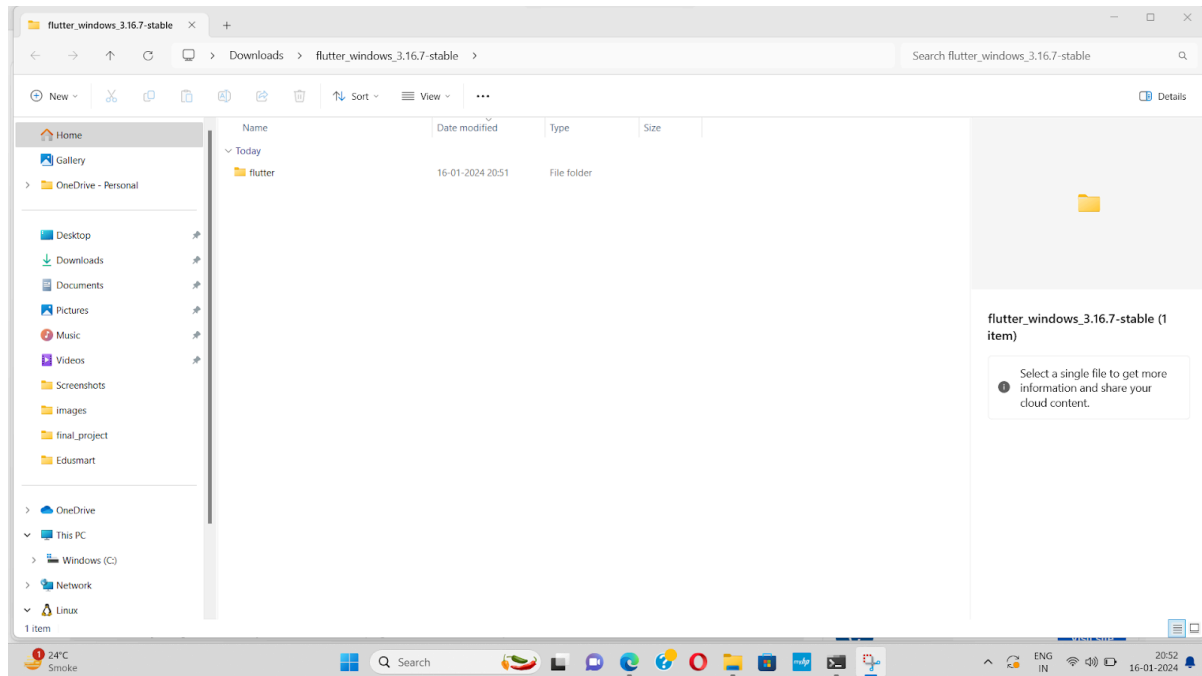
Step 1: Download the installation bundle of the Flutter Software Development Kit for windows.



When your download is complete, extract the zip file and place it in the desired installation folder or location, for example, C: /Flutter.

After unzipping the file





Now run the flutter command

```
Command Prompt
Microsoft Windows [Version 10.0.22621.3007]
(c) Microsoft Corporation. All rights reserved.

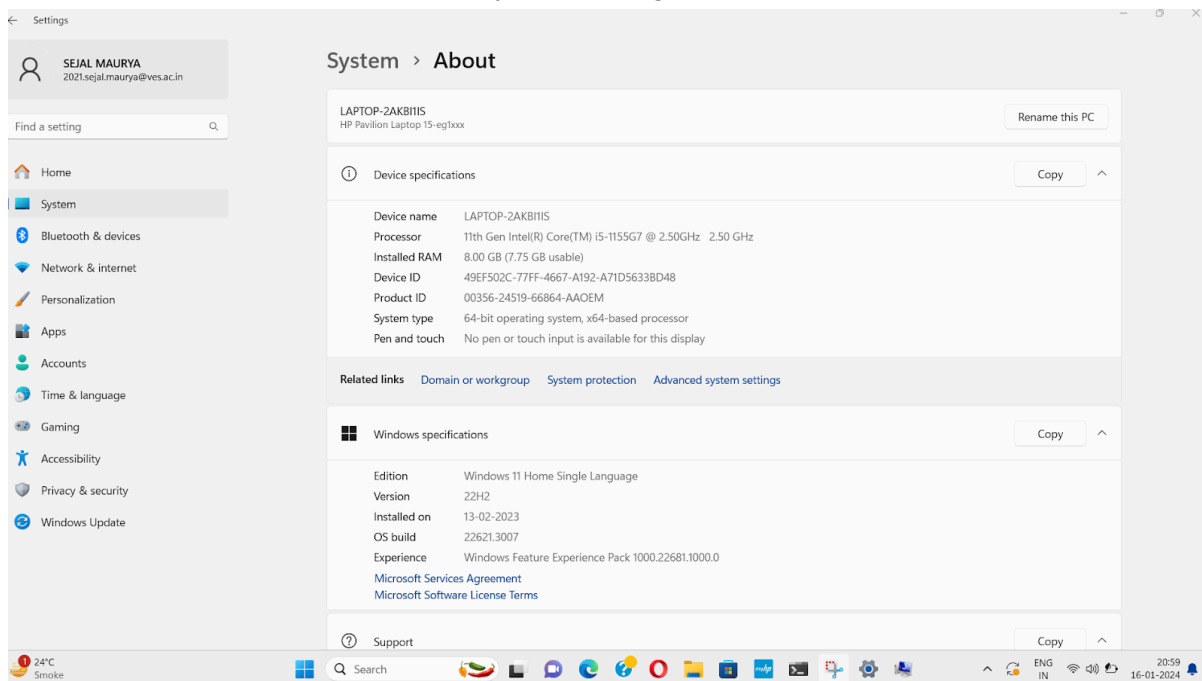
C:\Users\Sejal>cd src
The system cannot find the path specified.

C:\Users\Sejal>flutter
'flutter' is not recognized as an internal or external command,
operable program or batch file.

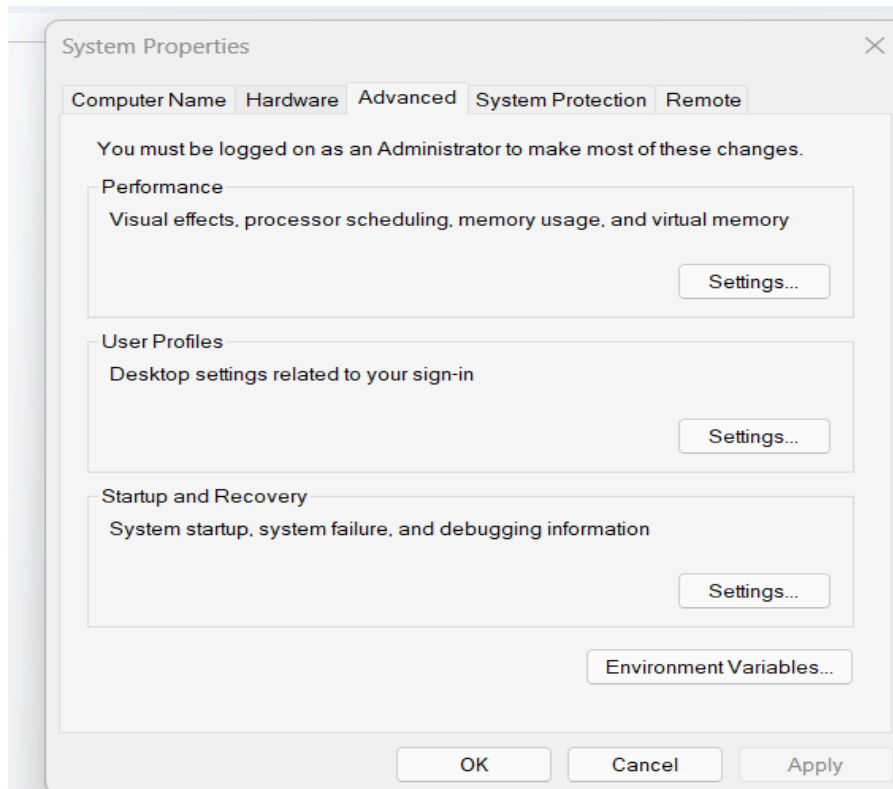
C:\Users\Sejal>
```

Set the system and user variable

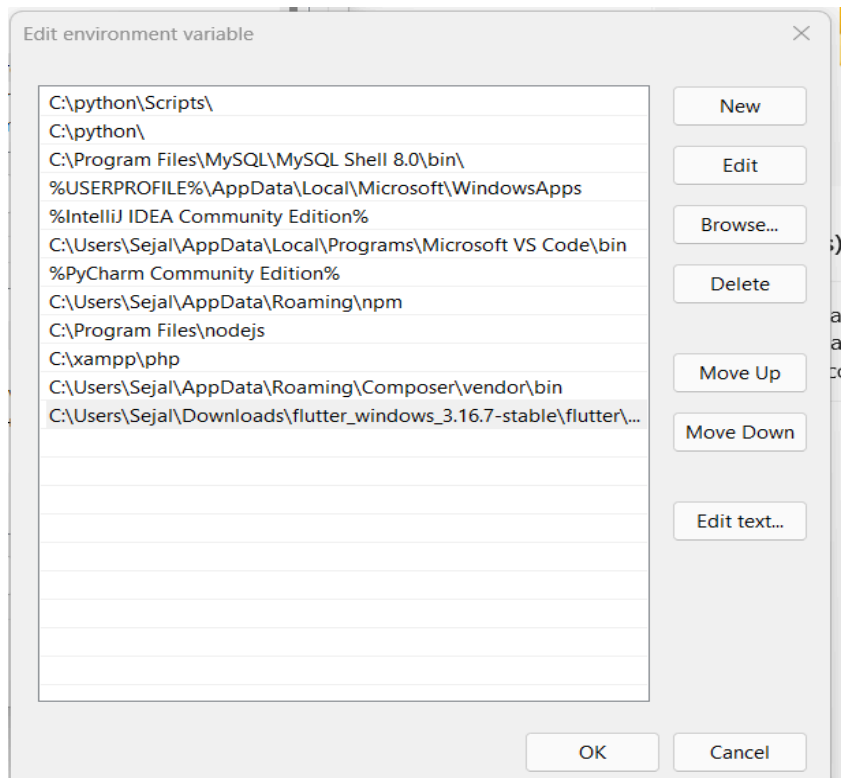
So here we have to Go to advanced system settings



Then select environment variable



Enter the path



Now, run the \$ flutter command in command prompt.

```
C:\Users\Sejal>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:
```

```
Microsoft Windows [Version 10.0.22621.3007]
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C:\Users\Sejal>dart pub cache repair

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

To disable reporting of analytics, run:

  dart --disable-analytics

^CTerminate batch job (Y/N)?
^CThe syntax of the command is incorrect.

C:\Users\Sejal>dart pub cache repair
Reinstalled 18 packages.

C:\Users\Sejal>flutter doctor
Found an existing Pub cache at C:\Users\Sejal\AppData\Local\Pub\Cache.
It can be repaired by running 'dart pub cache repair'.
It can be reset by running 'dart pub cache clean'.
```

```
Command Prompt - flutter p
Microsoft Windows [Version 10.0.22621.3007]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Sejal>flutter pub cache repair
Found an existing Pub cache at C:\Users\Sejal\AppData\Local\Pub\Cache.
It can be repaired by running 'dart pub cache repair'.
It can be reset by running 'dart pub cache clean'.
Reinstalled 153 packages.

C:\Users\Sejal>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.16.7, on Microsoft Windows [Version 10.0.22621.3007], locale en-IN)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[✗] Android toolchain - develop for Android devices
    ✗ Unable to locate Android SDK.
      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 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 (not installed)
[✓] VS Code (version 1.85.1)
[✓] Connected device (3 available)
[✓] Network resources

! Doctor found issues in 3 categories.
C:\Users\Sejal>
```

```
Command Prompt - flutter ci
Microsoft Windows [Version 10.0.22621.3007]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Sejal>cd desktop
C:\Users\Sejal\Desktop>cd flutter

C:\Users\Sejal\Desktop\flutter>flutter create ganesh
Creating project ganesh...
Found an existing Pub cache at C:\Users\Sejal\AppData\Local\Pub\Cache.
It can be repaired by running 'dart pub cache repair'.
It can be reset by running 'dart pub cache clean'.
Resolving dependencies in ganesh... (1.9s)
Got dependencies in ganesh.
Wrote 129 files.

All done!
You can find general documentation for Flutter at: https://docs.flutter.dev/
Detailed API documentation is available at: https://api.flutter.dev/
If you prefer video documentation, consider: https://www.youtube.com/c/flutterdev

In order to run your application, type:

$ cd ganesh
$ flutter run

Your application code is in ganesh\lib\main.dart.

C:\Users\Sejal\Desktop\flutter>
```

Now download the android studio

Developers

Essentials Design & Plan Develop Google Play Community

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English Android Studio Sign in

ANDROID STUDIO

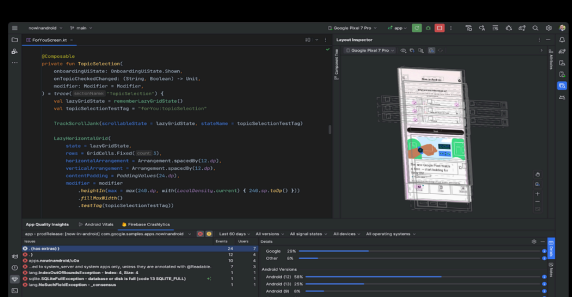
Download Android Studio editor Android Gradle Plugin SDK tools Preview

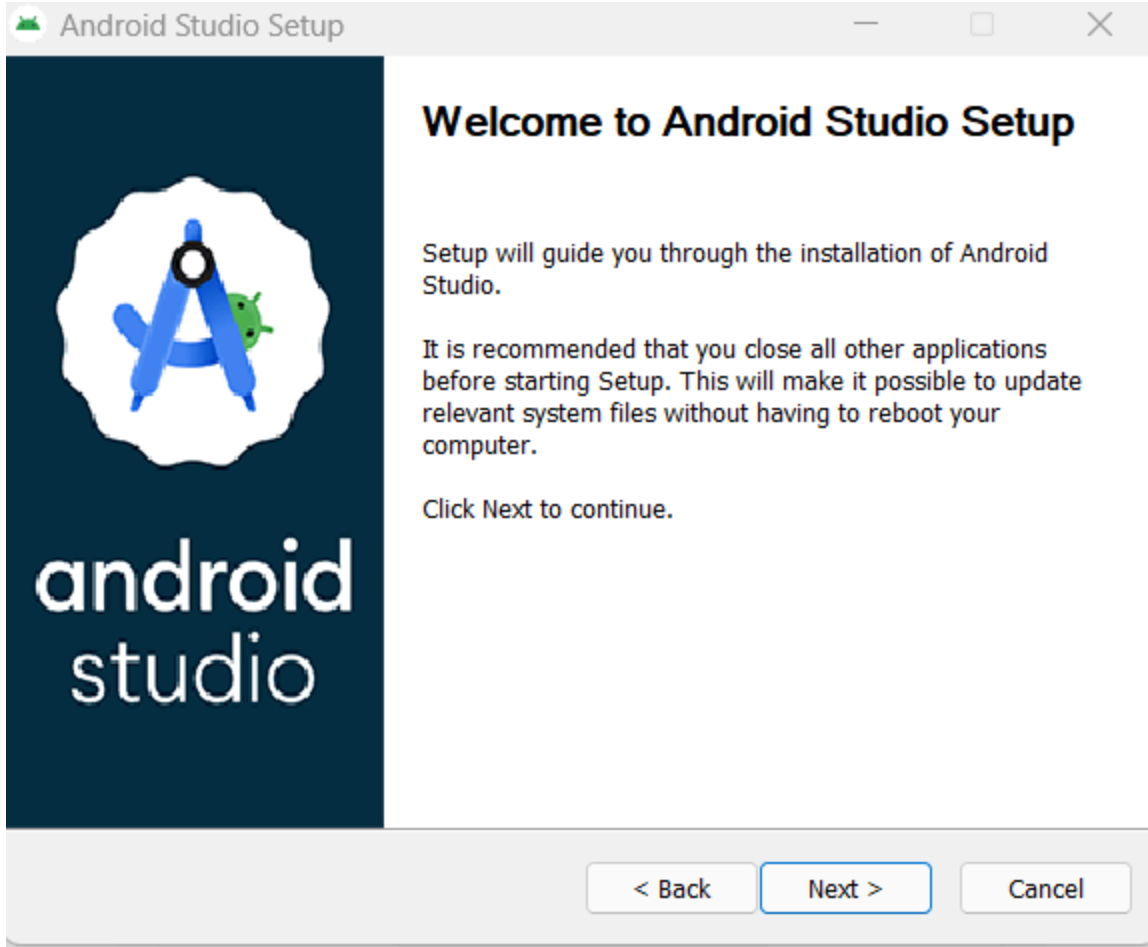
Android Studio

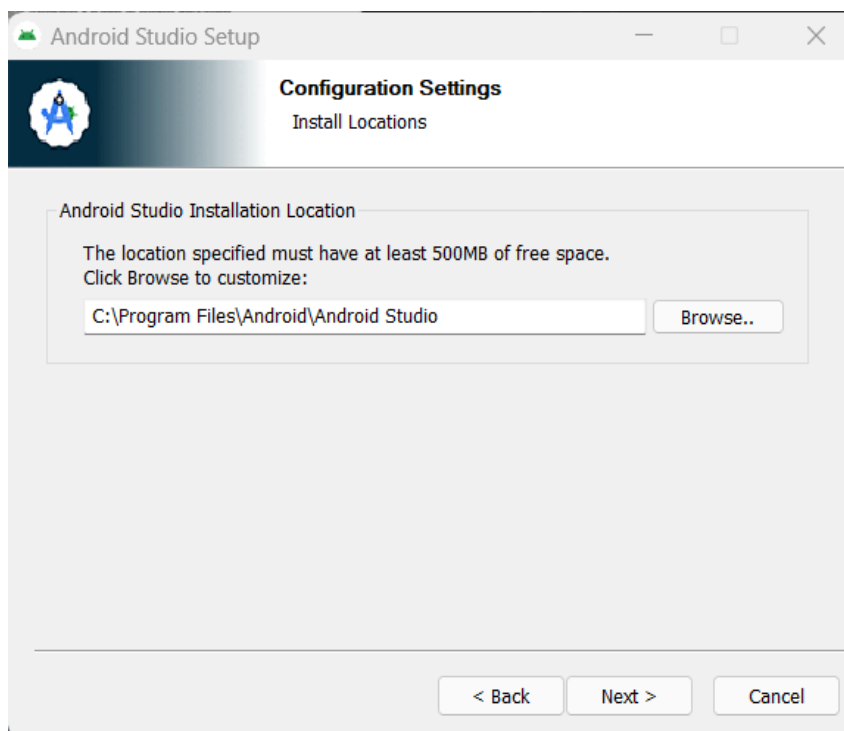
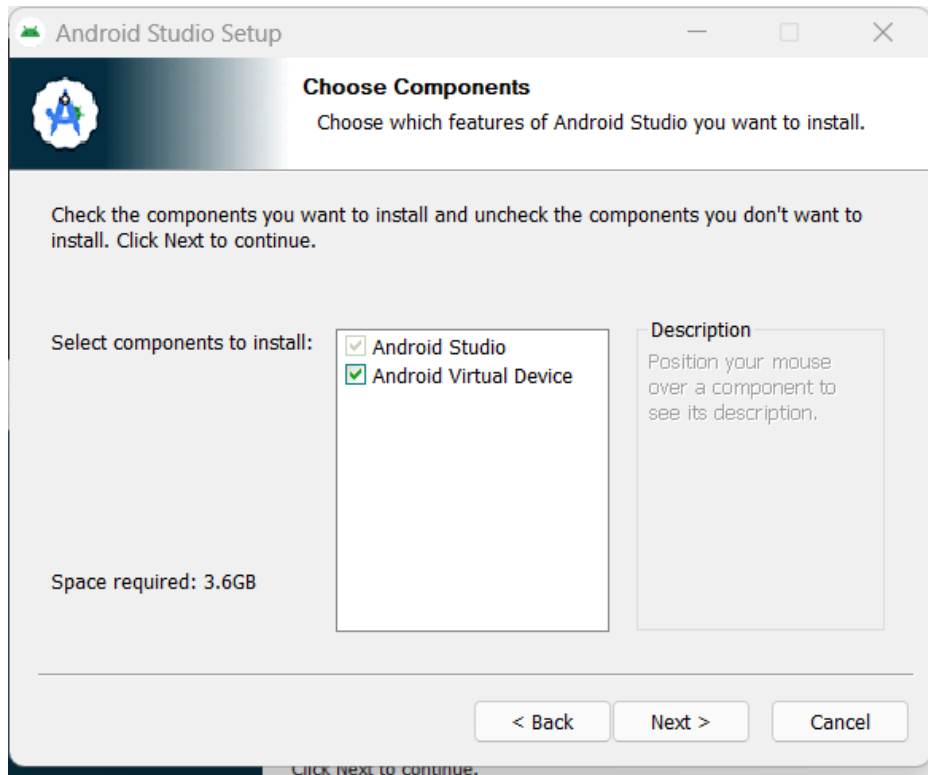
Get the official Integrated Development Environment (IDE) for Android app development.

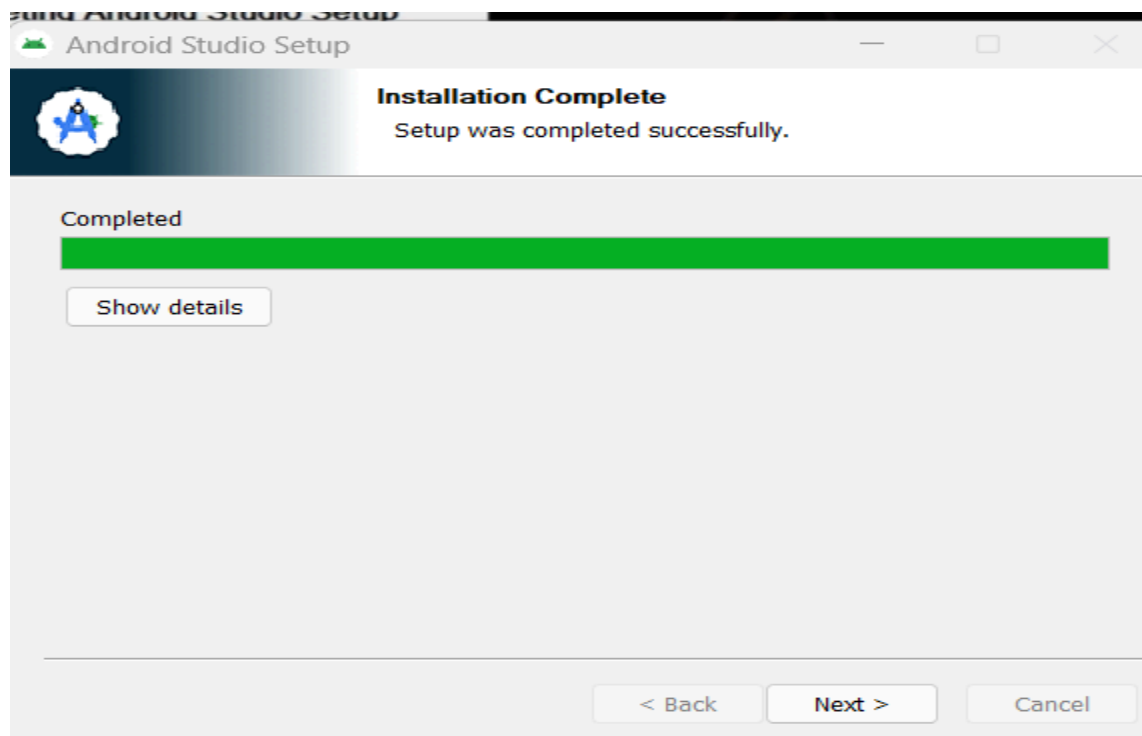
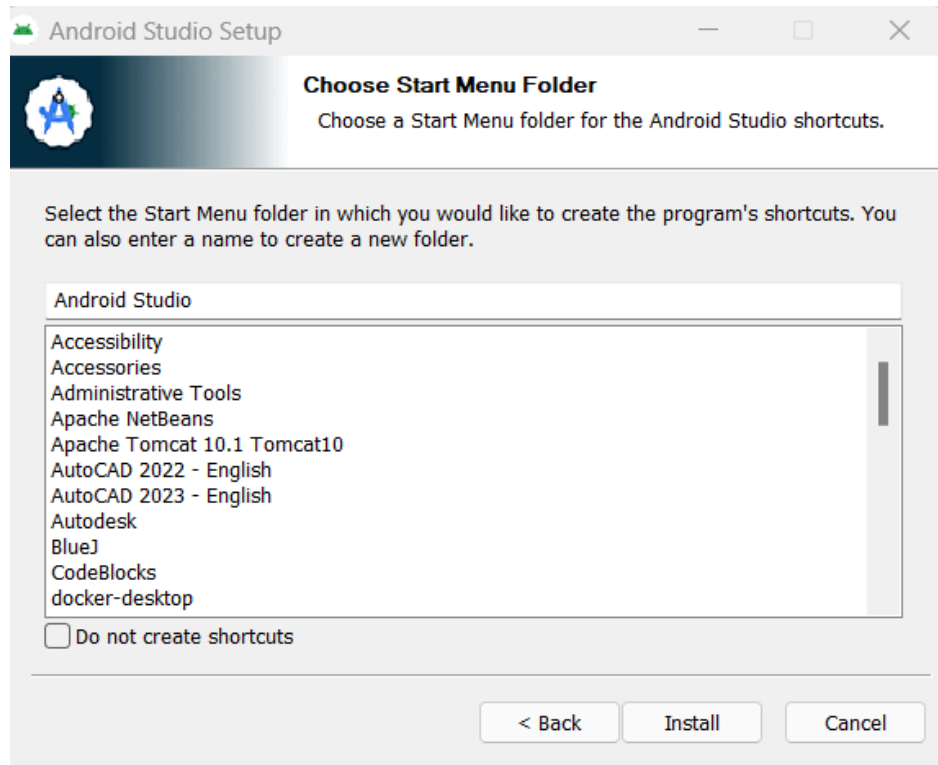
Download Android Studio Hedgehog

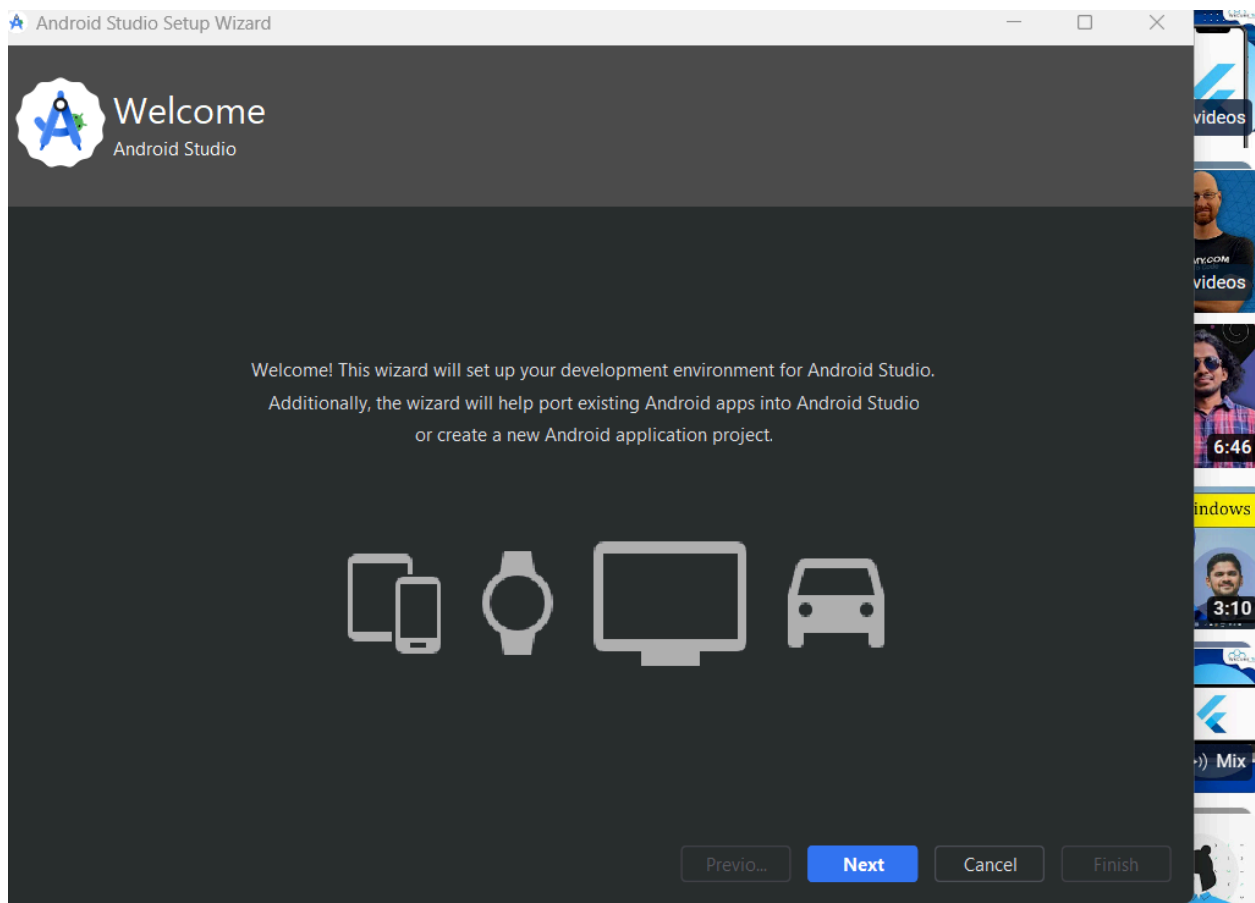
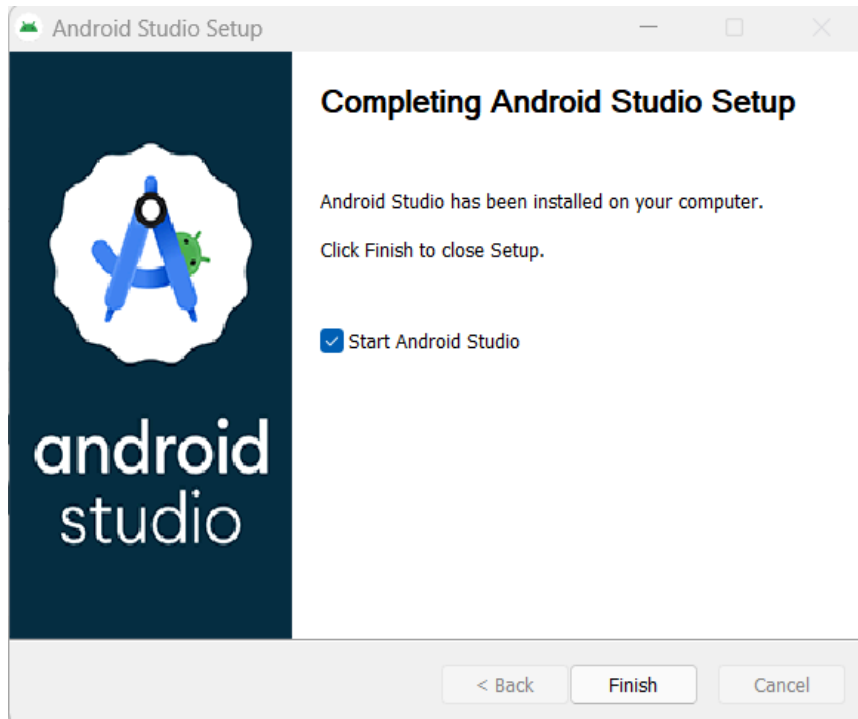
Read release notes

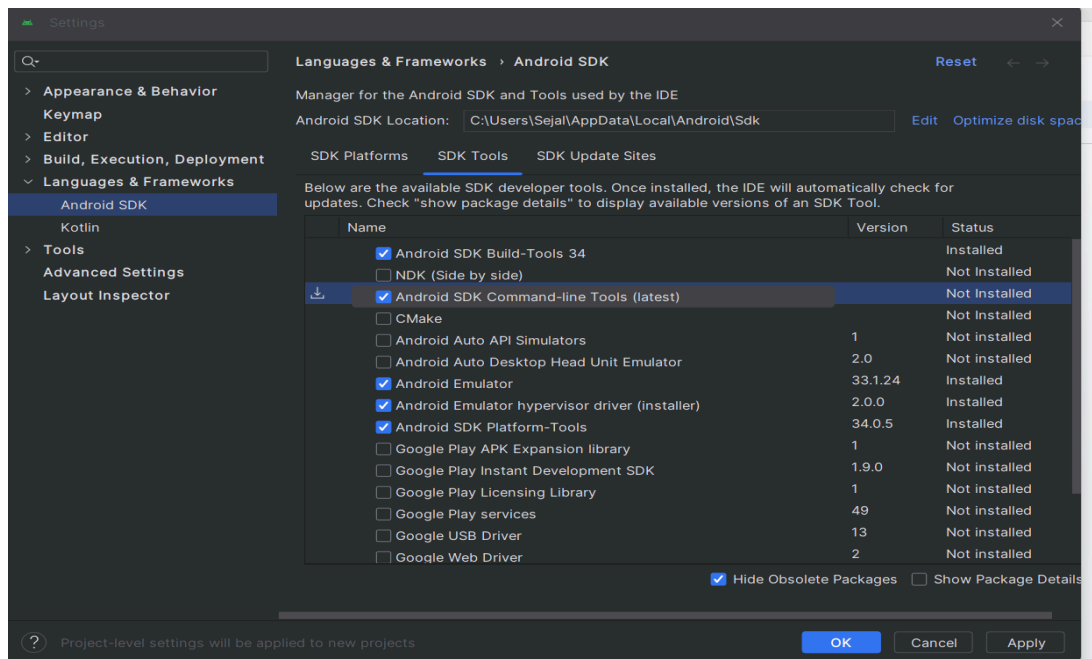
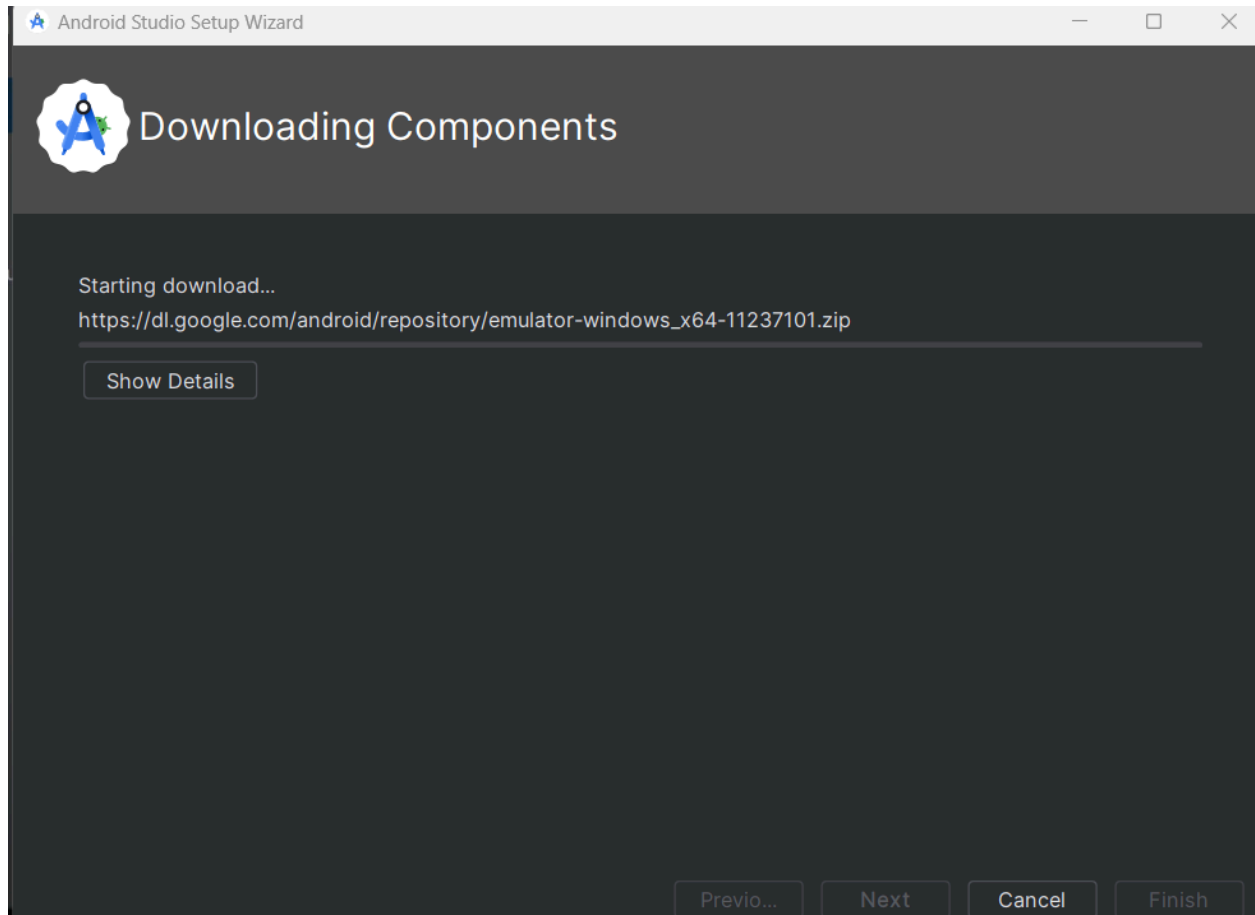


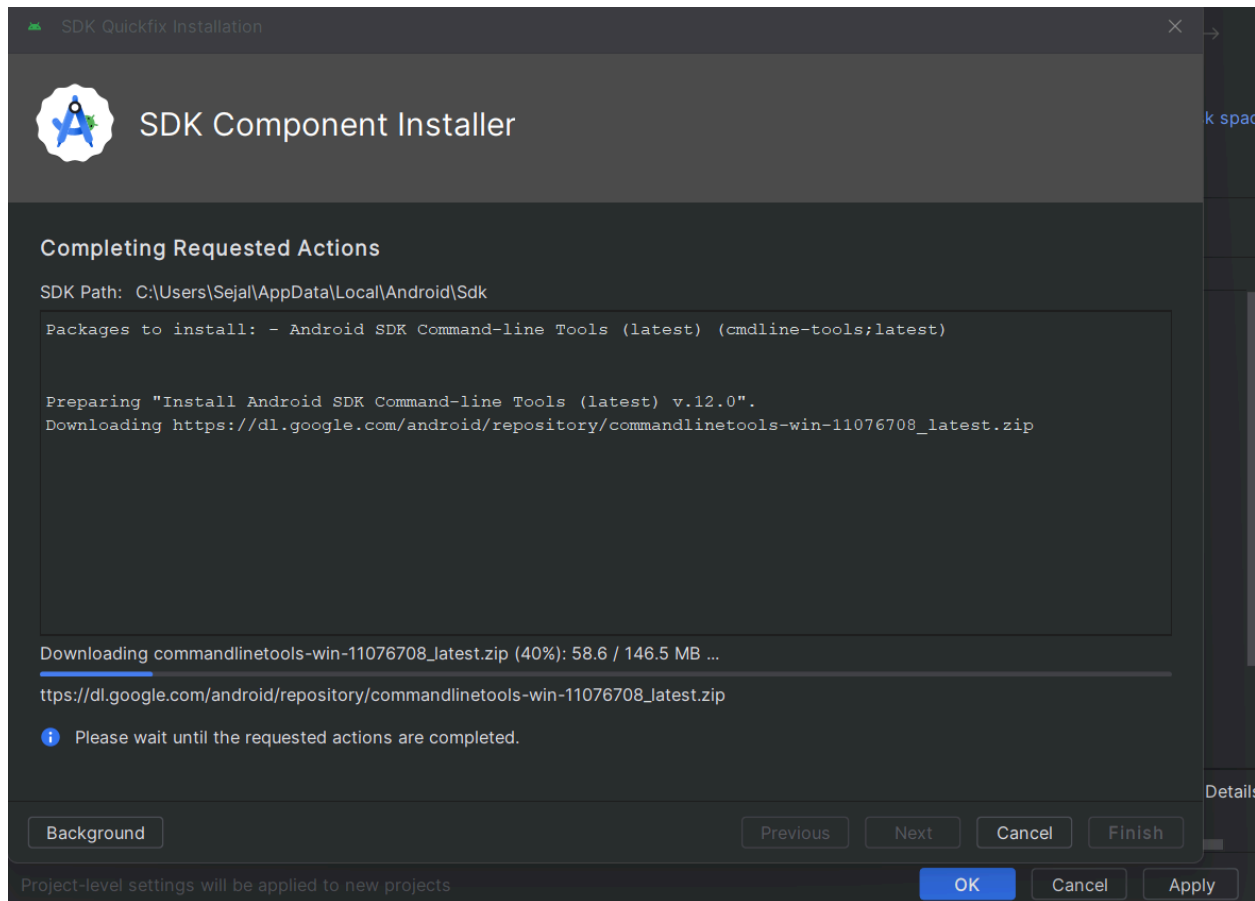












```
C:\Users\Sejal>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.16.7, on Microsoft Windows [Version 10.0.22621.3807], locale en-IN)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[!] Android toolchain - develop for Android devices (Android SDK version 34.0.0)
    ! Some Android licenses not accepted. To resolve this, run: flutter doctor --android-licenses
[✓] 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 2023.1)
[✓] VS Code (version 1.85.1)
[✓] Connected device (3 available)
[✓] Network resources

! Doctor found issues in 2 categories.

C:\Users\Sejal>
```

```
C:\Users\Sejal> flutter doctor --android-licenses
[=====] 100% Computing updates...
4 of 7 SDK package licenses not accepted.
Review licenses that have not been accepted (y/N)? |
```

```
Command Prompt - flutter dr  x  +  v  -  □  x

applicable court decisions.

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Accept? (y/N): y
All SDK package licenses accepted

C:\Users\Sejal>
```

```
C:\Users\Sejal>flutter doctor

Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.16.7, on Microsoft Windows [Version 10.0.22621.3807], locale en-IN)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[✓] Android toolchain - develop for Android devices (Android SDK version 34.0.0)
[✓] Chrome - develop for the web
[✗] 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 2023.1)
[✓] VS Code (version 1.85.1)
[✓] Connected device (3 available)
[✓] Network resources

! Doctor found issues in 1 category.

C:\Users\Sejal>
```

```
Command Prompt - flutter ci x + v
Microsoft Windows [Version 10.0.22621.3007]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Sejal>cd AndroidStudioProjects

C:\Users\Sejal\AndroidStudioProjects>flutter create exp1
Creating project exp1...
Resolving dependencies in exp1... (1.5s)
Got dependencies in exp1.
Wrote 129 files.

All done!
You can find general documentation for Flutter at: https://docs.flutter.dev/
Detailed API documentation is available at: https://api.flutter.dev/
If you prefer video documentation, consider: https://www.youtube.com/c/flutterdev

In order to run your application, type:

$ cd exp1
$ flutter run

Your application code is in exp1\lib\main.dart.

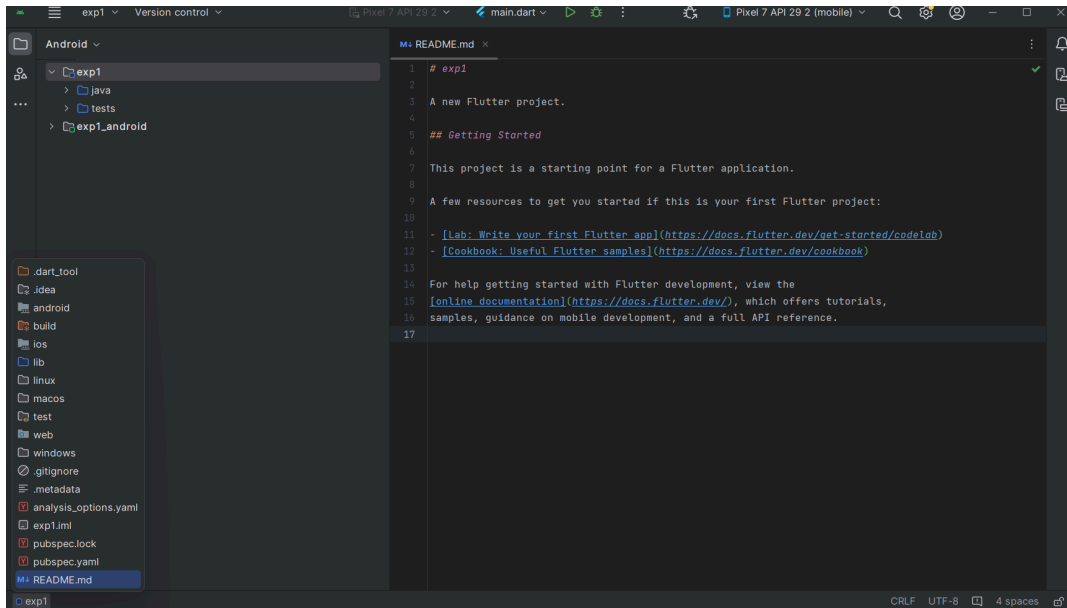
C:\Users\Sejal\AndroidStudioProjects>
```

```
C:\Users\Sejal\AndroidStudioProjects>cd exp1

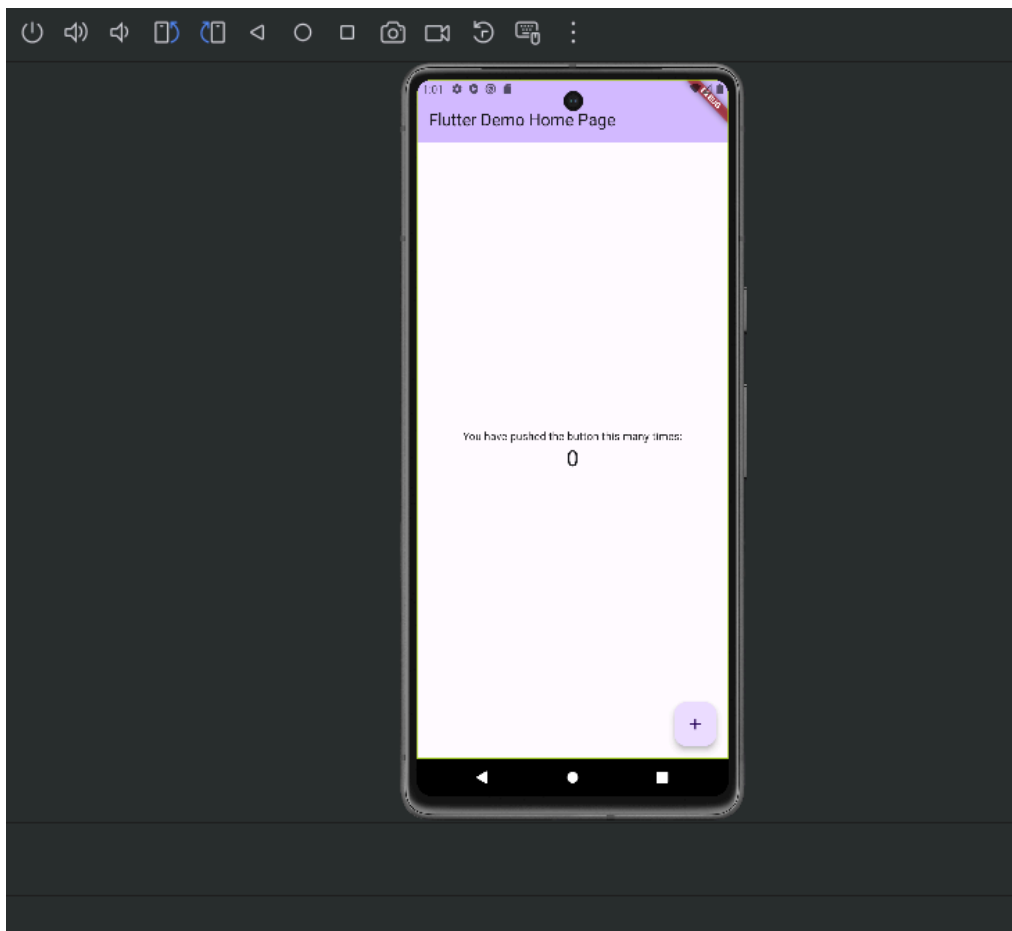
C:\Users\Sejal\AndroidStudioProjects\exp1>flutter run
Launching lib\main.dart on Android SDK built for x86 in debug mode...
Running Gradle task 'assembleDebug'... 64.2s
✓ Built build\app\outputs\flutter-apk\app-debug.apk.
Installing build\app\outputs\flutter-apk\app-debug.apk... 16.6s
Syncing files to device Android SDK built for x86... 2,995ms

Flutter run key commands.
r Hot reload.
R Hot restart.
h List all available interactive commands.
d Detach (terminate "flutter run" but leave application running).
c Clear the screen
q Quit (terminate the application on the device).

A Dart VM Service on Android SDK built for x86 is available at: http://127.0.0.1:60686/QGP0aVGLnSM=/
The Flutter DevTools debugger and profiler on Android SDK built for x86 is available at:
http://127.0.0.1:9101?uri=http://127.0.0.1:60686/QGP0aVGLnSM=/
D/eglCodecCommon(22530): setVertexArrayObject: set vao to 0 (0) 1 0
D/EGLEmulation(22530): eglMakeCurrent: 0xe0b1a120: ver 2 0 (tinfo 0xe0b0f040)
D/eglCodecCommon(22530): setVertexArrayObject: set vao to 0 (0) 0 0
I/OpenGLRenderer(22530): Davey! duration=831ms; Flags=0, IntendedVsync=24035556897697, Vsync=24035640231027, OldestInput
Event=9223372036854775807, NewestInputEvent=0, HandleInputStart=24035651479200, AnimationStart=24035651715700, PerformTr
aversalsStart=24035651932000, DrawStart=24035682593500, SyncQueued=24035753747300, SyncStart=24035949546600, IssueDrawCo
mmandsStart=24035985759100, SwapBuffers=24036392089600, FrameCompleted=24036583811100, DequeueBufferDuration=87140000, Q
ueueBufferDuration=30316000,
```



Emulator



Output

```
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(
      home: Scaffold(
        appBar: AppBar(

        ),
        body: Container(
          child: Center(
            child: Text("Hello Sejal ",
              style: TextStyle(
                fontSize: 40
              ),),
          ),
        ),
      ),
    );
  }
}
```

