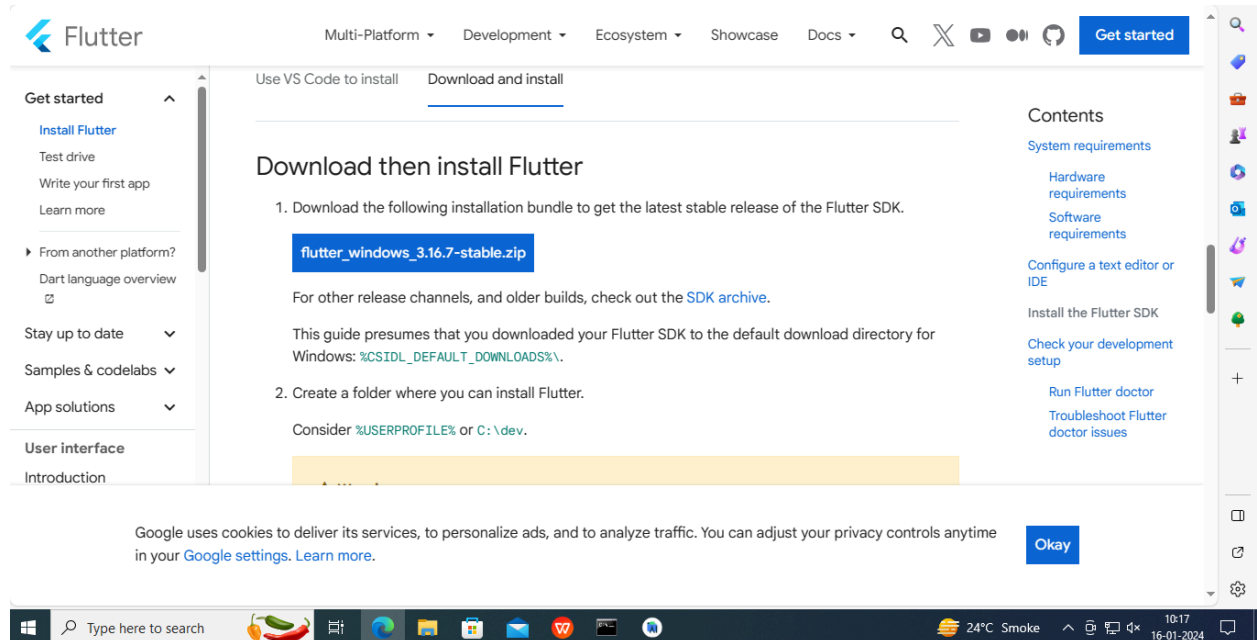


# MPL Lab: Experiment No.1

**Name:** Swarali Dhobale D15A 13

**Aim:** Installation and Configuration of Flutter Environment.

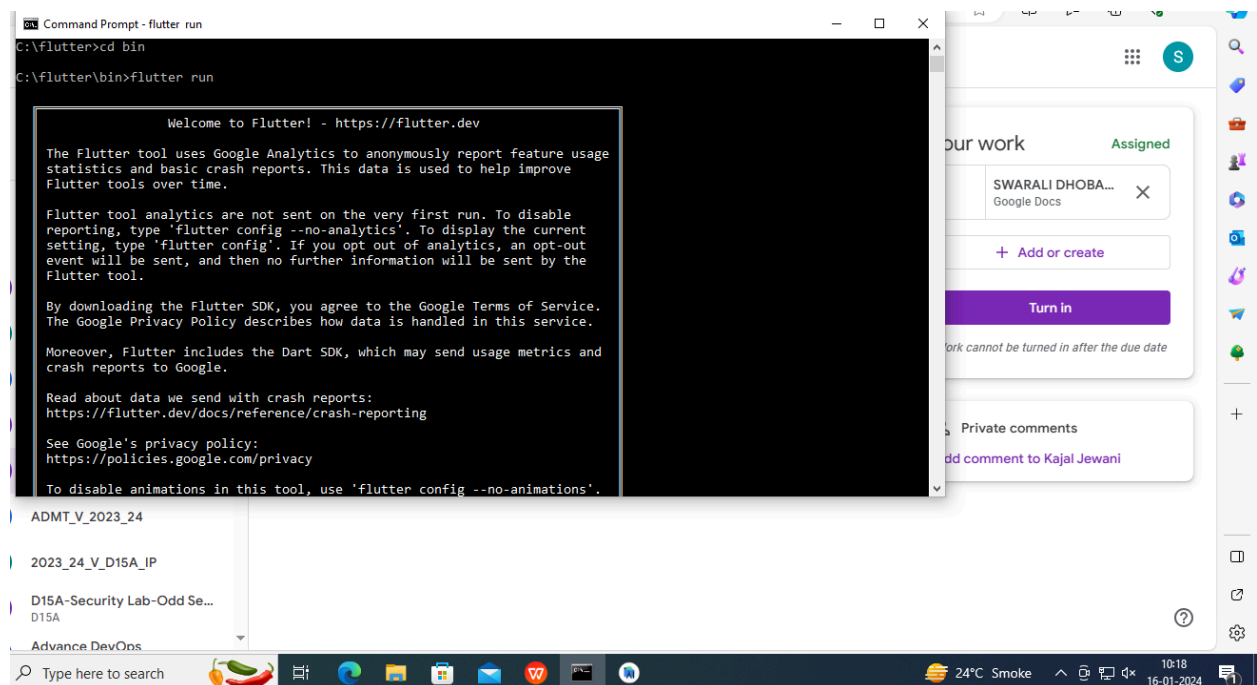
## Flutter download and install:



The screenshot shows the Flutter website's 'Download and install' page. The page is titled 'Download then install Flutter' and provides instructions for downloading the Flutter SDK. 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: `%SIDL_DEFAULT_DOWNLOADS%`.
- Create a folder where you can install Flutter.  
Consider `%USERPROFILE%` or `C:\dev`.

The page also includes a 'Get started' sidebar with links to 'Install Flutter', 'Test drive', 'Write your first app', and 'Learn more'. A 'Contents' sidebar on the right lists 'System requirements', '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'. A Google cookie notice is visible at the bottom of the page.



The screenshot shows a Windows Command Prompt window titled 'Command Prompt - flutter run'. The user has navigated to the Flutter bin directory and run the 'flutter run' command. The output of the command is as follows:

```
C:\flutter>cd bin
C:\flutter\bin>flutter run

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.

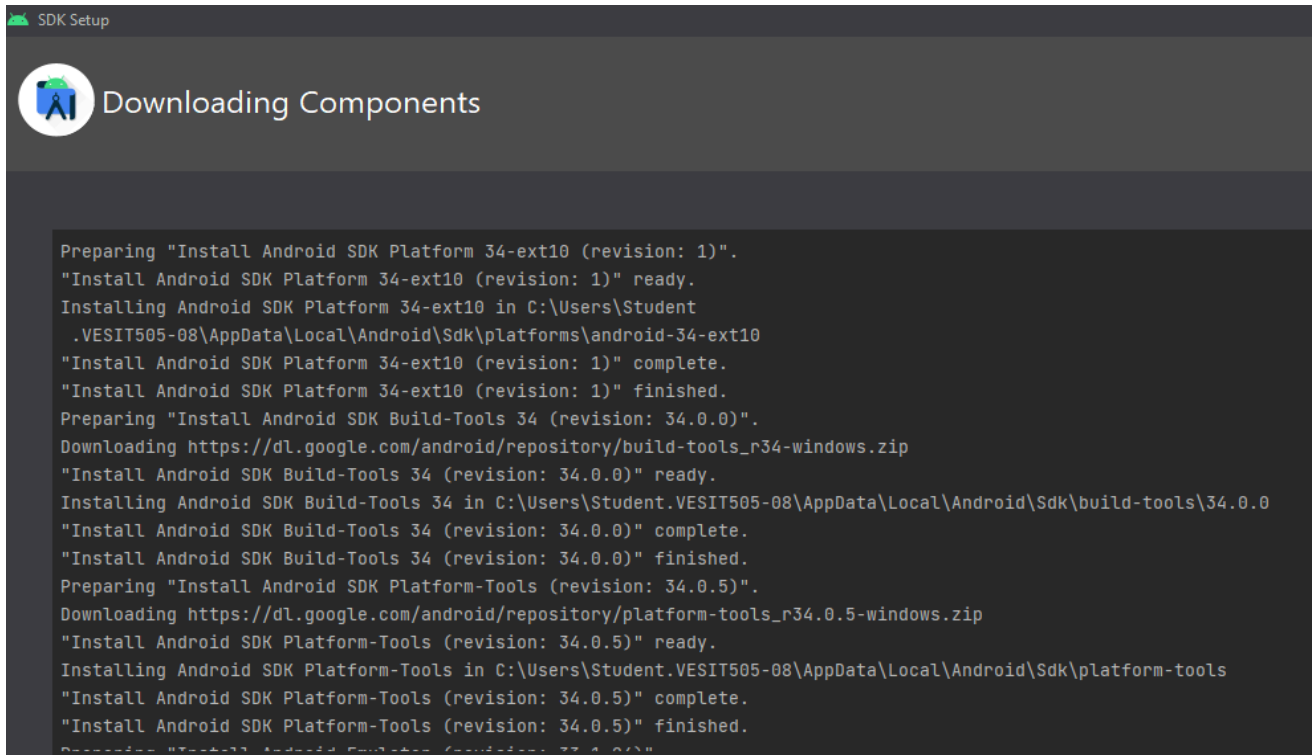
Read about data we send with crash reports:
https://flutter.dev/docs/reference/crash-reporting

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

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

The Command Prompt window is open over a desktop background. A taskbar at the bottom shows the Windows Start button, search bar, and several application icons. A system tray at the bottom right shows the temperature (24°C), smoke level, and the date (16-01-2024).

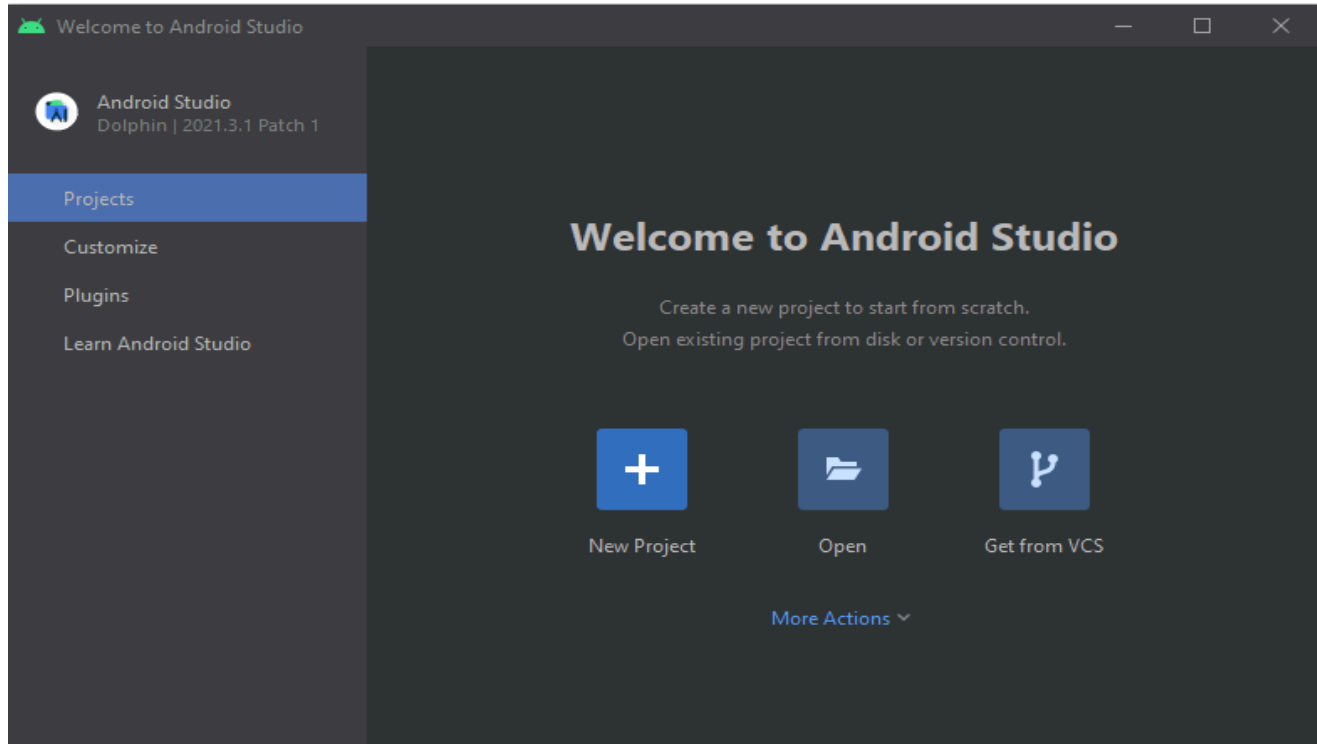
## Android Studio installation:



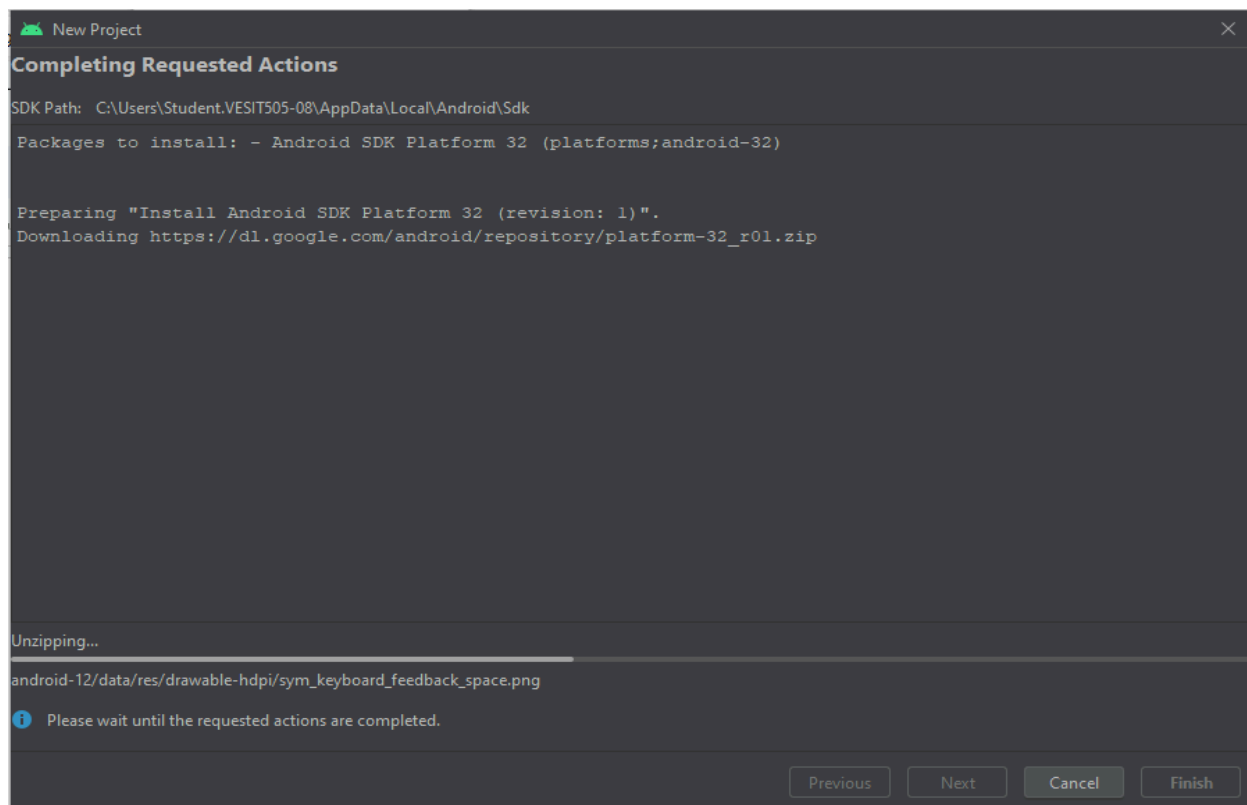
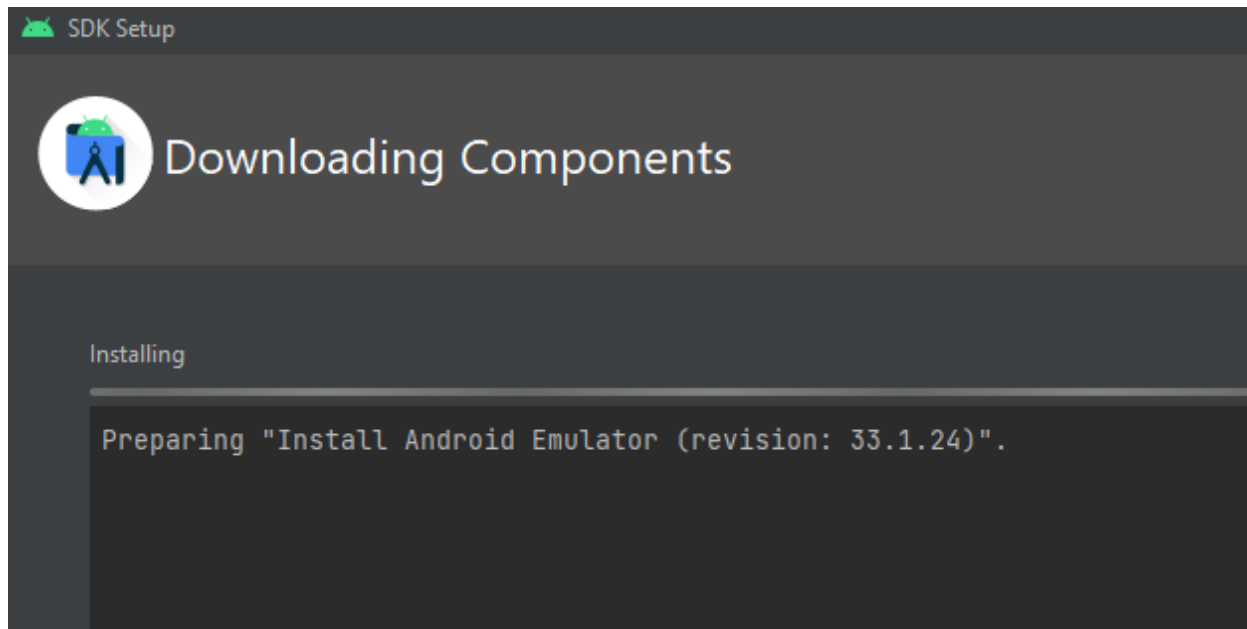
SDK Setup

Downloading Components

```
Preparing "Install Android SDK Platform 34-ext10 (revision: 1)".
"Install Android SDK Platform 34-ext10 (revision: 1)" ready.
Installing Android SDK Platform 34-ext10 in C:\Users\Student
.VESIT505-08\AppData\Local\Android\Sdk\platforms\android-34-ext10
"Install Android SDK Platform 34-ext10 (revision: 1)" complete.
"Install Android SDK Platform 34-ext10 (revision: 1)" finished.
Preparing "Install Android SDK Build-Tools 34 (revision: 34.0.0)".
Downloading https://dl.google.com/android/repository/build-tools_r34-windows.zip
"Install Android SDK Build-Tools 34 (revision: 34.0.0)" ready.
Installing Android SDK Build-Tools 34 in C:\Users\Student.VESIT505-08\AppData\Local\Android\Sdk\build-tools\34.0.0
"Install Android SDK Build-Tools 34 (revision: 34.0.0)" complete.
"Install Android SDK Build-Tools 34 (revision: 34.0.0)" finished.
Preparing "Install Android SDK Platform-Tools (revision: 34.0.5)".
Downloading https://dl.google.com/android/repository/platform-tools_r34.0.5-windows.zip
"Install Android SDK Platform-Tools (revision: 34.0.5)" ready.
Installing Android SDK Platform-Tools in C:\Users\Student.VESIT505-08\AppData\Local\Android\Sdk\platform-tools
"Install Android SDK Platform-Tools (revision: 34.0.5)" complete.
"Install Android SDK Platform-Tools (revision: 34.0.5)" finished.
```



## Installation for Android Emulator:



**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('My First Flutter App'),  
        ),  
        body: const Center(  
          child: Text('Hello World!'),  
        ),  
      ),  
    );  
  }  
}
```

**Output:**

**Conclusion:** Flutter and Android Studio have been installed and configured.