

MPL Lab: Experiment No.1

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Aim: Installation and Configuration of Flutter Environment.

Flutter download and install:

The image shows the Flutter website's 'Download and install' page. The page title is 'Download then install Flutter'. It provides instructions for downloading the Flutter SDK. The first step is to download the installation bundle for the latest stable release, which is 'flutter_windows_3.16.7-stable.zip'. The second step is to create a folder where you can install Flutter, suggesting '%USERPROFILE%\dev' or 'C:\dev'. The page also includes a 'Contents' section with links to '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 website.

Below the website screenshot, a Windows command prompt window is open, showing the following commands and output:

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

The output of the 'flutter run' command is displayed in a black box with white text:

```
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.

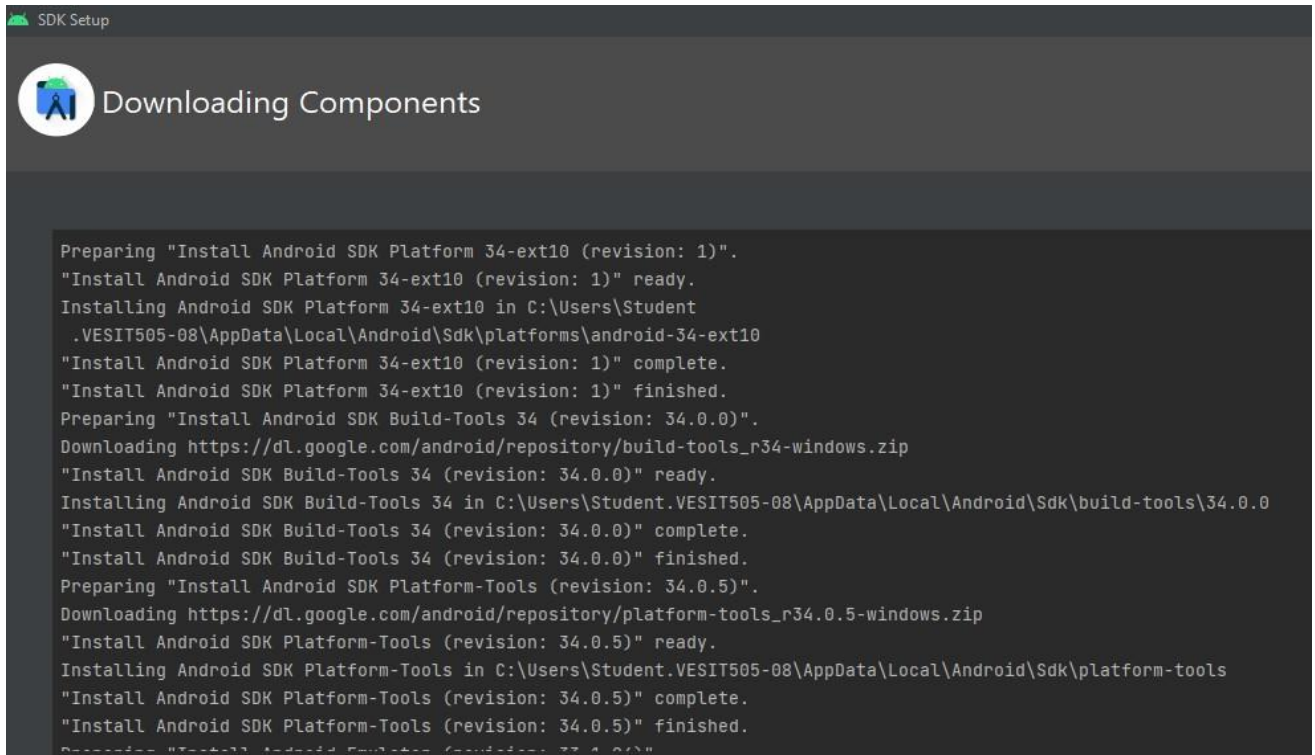
Read about data we send with crash reports:
https://flutter.dev/docs/reference/crash-reporting

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 overlaid on a Windows desktop background. The taskbar at the bottom shows the search bar, task view button, and several application icons. The system tray on the right shows the temperature (24°C), smoke detector status, and the date and time (10:17, 16-01-2024).

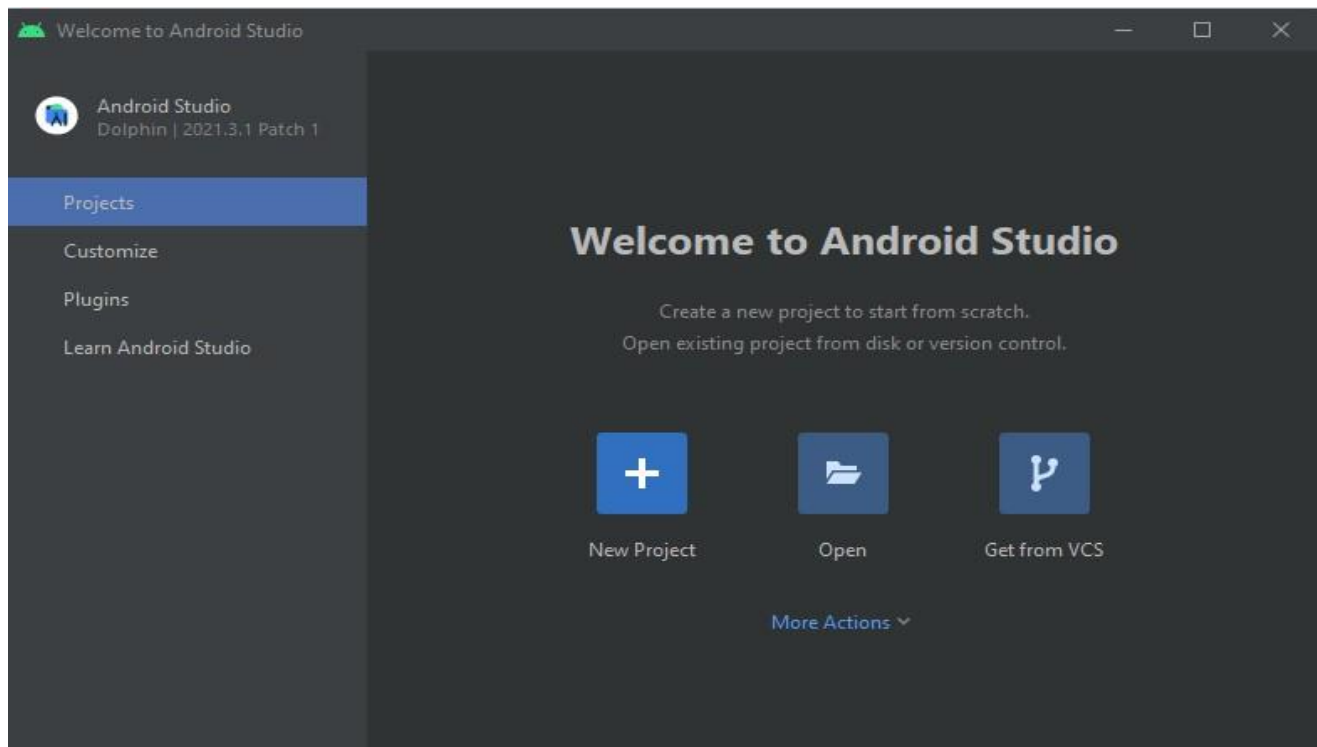
Android Studio installation:



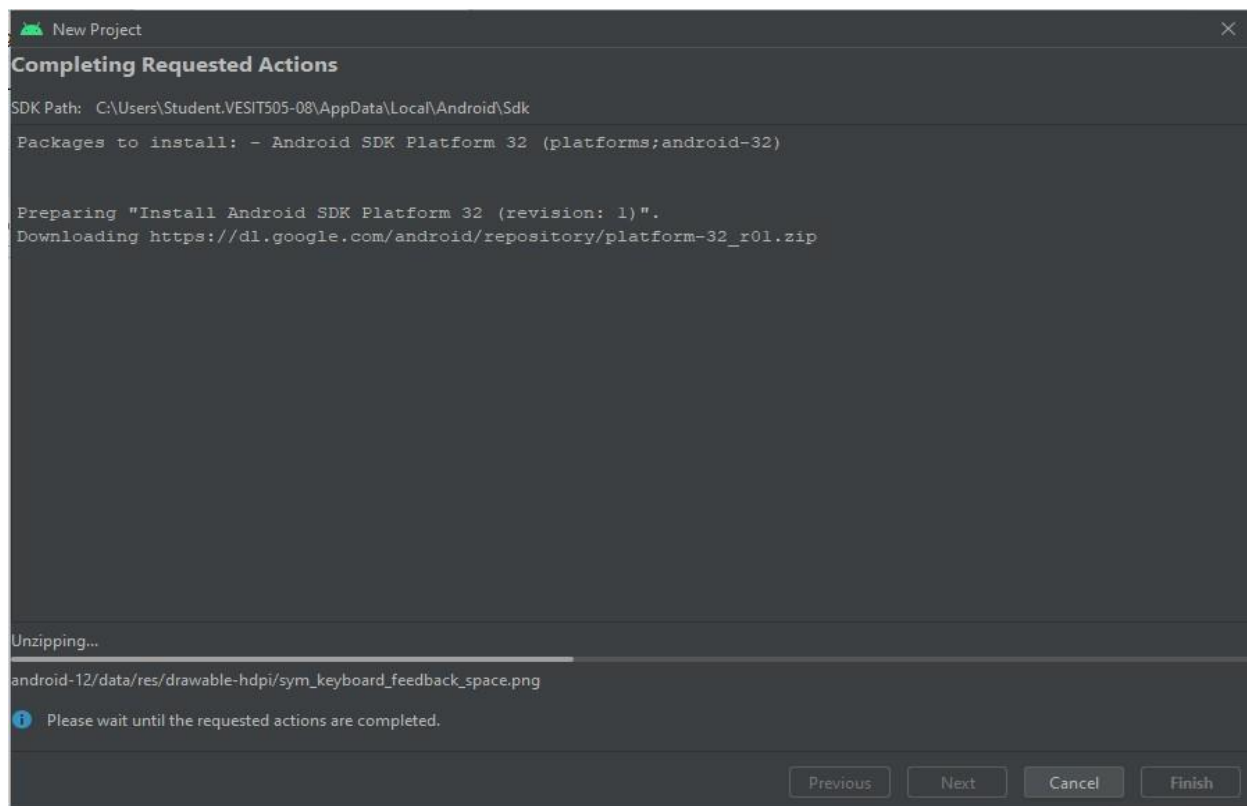
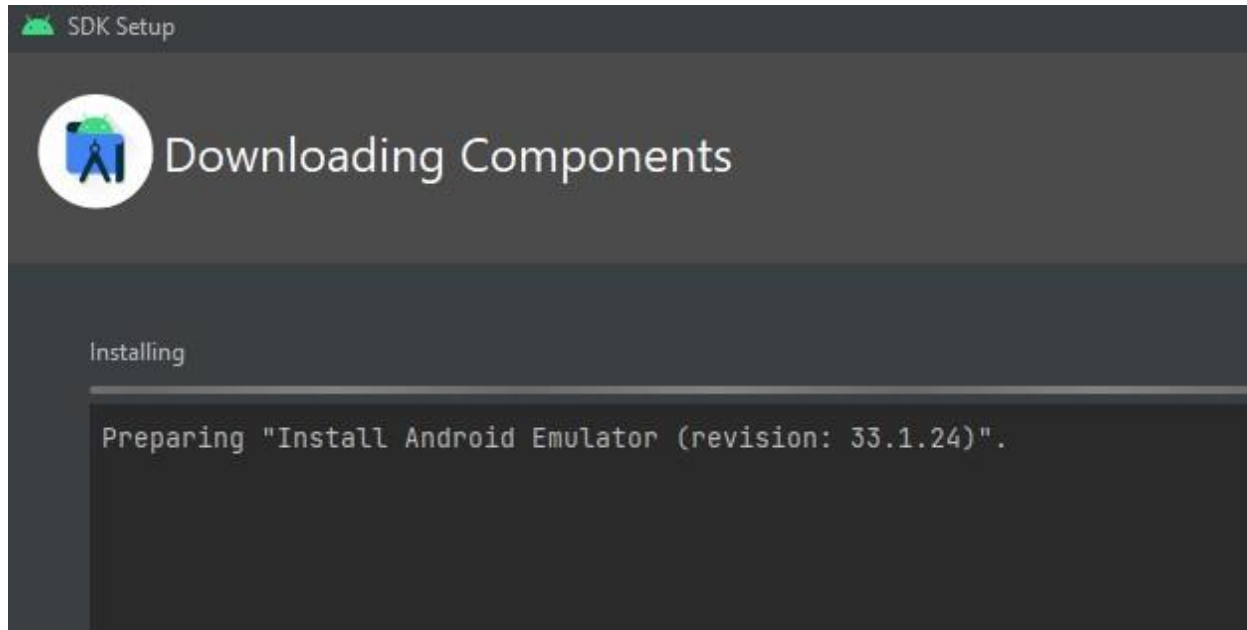
SDK Setup

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:

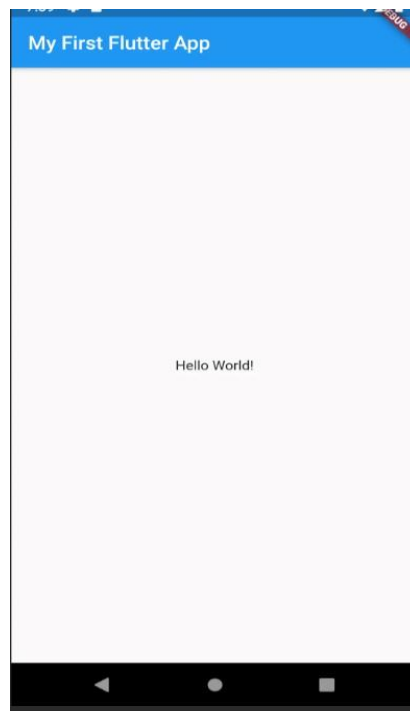


Code:

```
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.