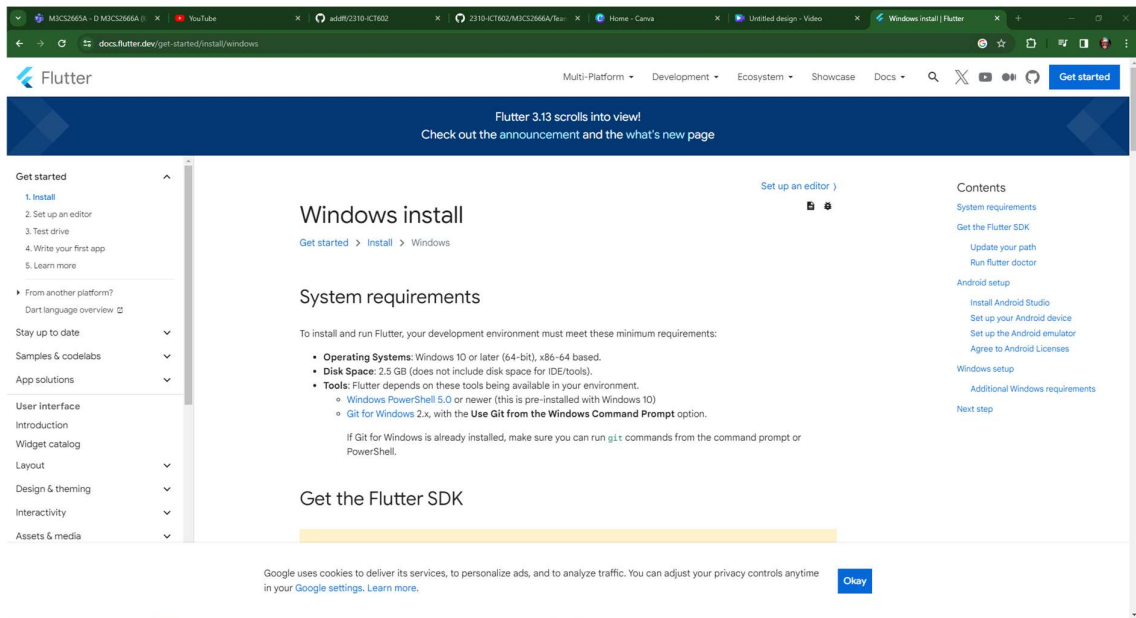


## Lab 1: How to install Flutter

1. Go to <https://docs.flutter.dev/get-started/install/windows>



2. Install flutter SDK. Click the blue button.

## Get the Flutter SDK

**Important:** If you're in China, read [Using Flutter in China](#).

[Help](#)

1. Download the following installation bundle to get the latest stable release of the Flutter SDK:

**flutter\_windows\_3.13.9-stable.zip**

For other release channels, and older builds, check out the [SDK archive](#).

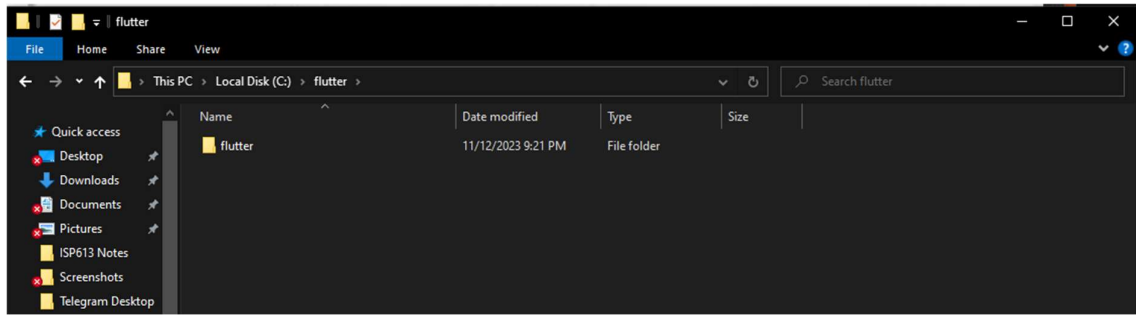
2. Extract the zip file and place the contained `flutter` in the desired installation location for the Flutter SDK (for example, `%USERPROFILE%\flutter`, `D:\dev\flutter`).

**Warning:** Do not install Flutter to a path that contains special characters or spaces.

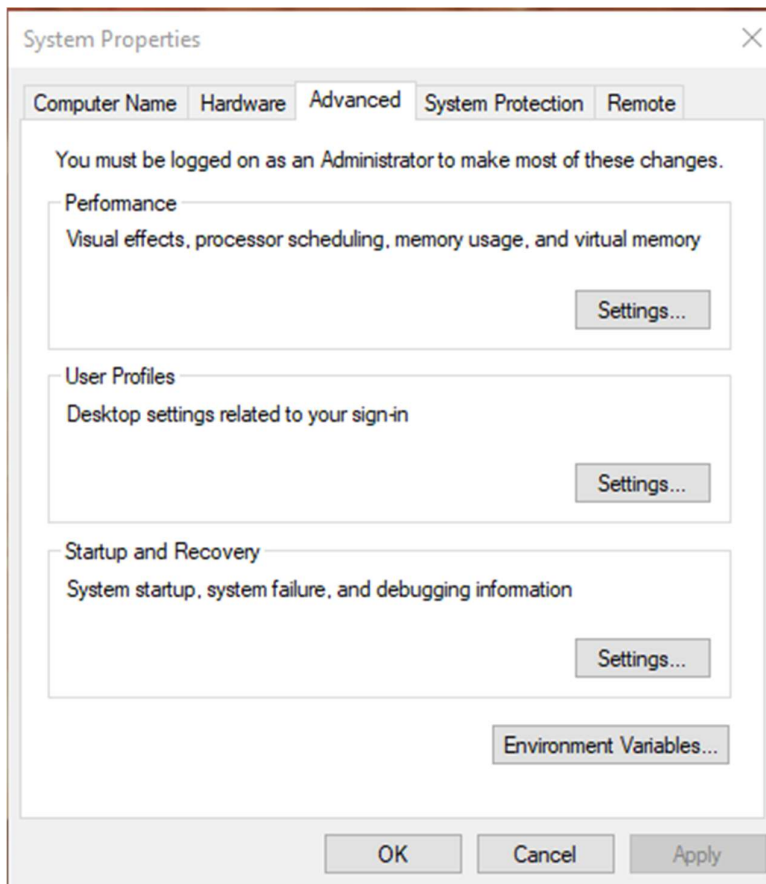
**Warning:** Do not install Flutter in a directory like `C:\Program Files\` that requires elevated privileges.

You are now ready to run Flutter commands in the Flutter Console.

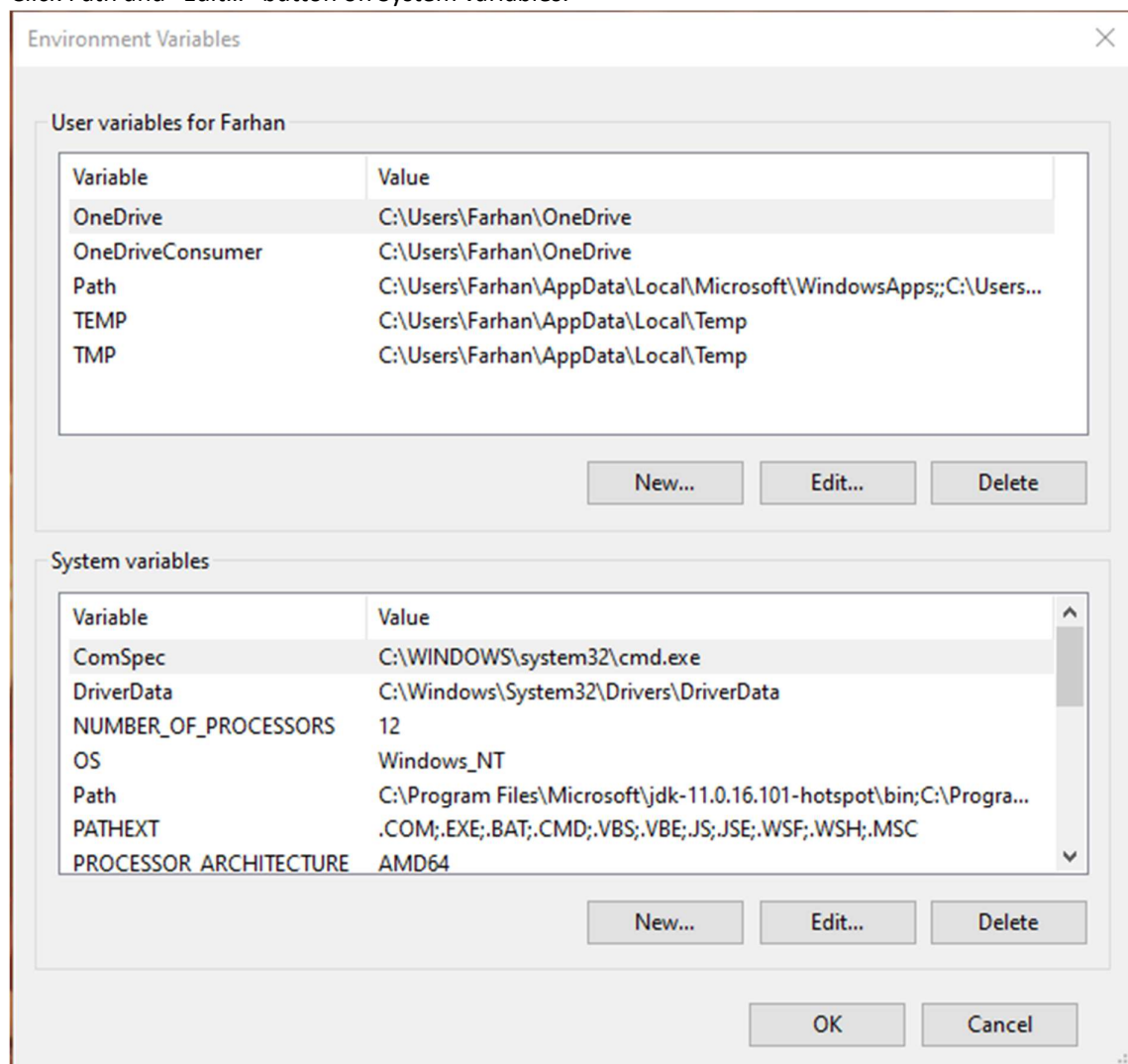
3. Place the Flutter SDK folder at C: drive.



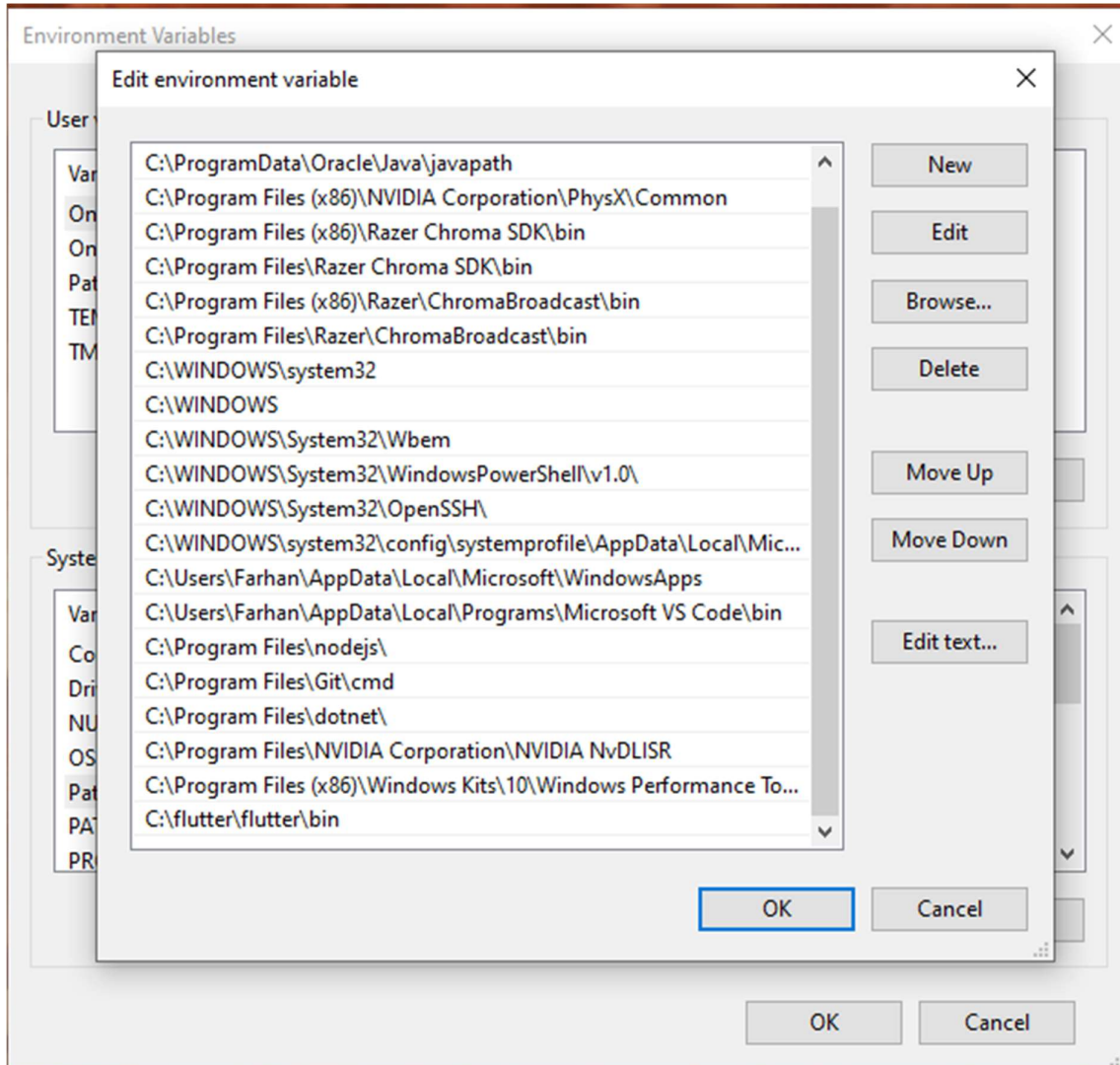
4. Go to System Properties and click Environment Variables.



Click Path and "Edit..." button on System variables.



Press New button and copy and paste path to flutter\bin



5. Check your cmd if flutter sdk is installed according to your path

```
C:\flutter\flutter\bin>where flutter dart
C:\flutter\flutter\bin\flutter
C:\flutter\flutter\bin\flutter.bat
C:\flutter\flutter\bin\dart
C:\flutter\flutter\bin\dart.bat
```

6. Write a command “flutter” in your cmd.

```
C:\Flutter\Flutter\bin>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.
--suppress-analytics      Suppress analytics reporting for the current CLI invocation.
--disable-telemetry       Disable telemetry reporting each time a flutter or dart command runs, until it is
                           re-enabled.
--enable-telemetry        Enable telemetry reporting each time a flutter or dart command runs.

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.
assemble                 Assemble and build Flutter resources.
build                    Build an executable app or install bundle.
clean                    Delete the build/ and dart-tool/ directories.
create                   Create a new Flutter project.
drive                    Run integration tests for the project on an attached device or emulator.
gen-l10n                 Generate localizations for the current project.
pub                      Commands for managing Flutter packages.
run                      Run your flutter app on an attached device.
test                     Run Flutter unit tests for the current project.

Tools & Devices
attach                   Attach to a running app.
custom-devices            List, reset, add and delete custom devices.
devices                  List all connected devices.
emulators                List, launch and create emulators.
install                  Install a Flutter app on an attached device.
logs                     Show log output for running Flutter apps.
screenshot               Take a screenshot from a connected device.
symbolize                 Symbolize a stack trace from an AOT-compiled Flutter app.

Run "flutter help <command>" for more information about a command.
Run "flutter help -v" for verbose help output, including less commonly used options.

C:\Flutter\Flutter\bin>
```

7. Write a command “flutter doctor”

```
Command Prompt - flutter - flutter doctor

Analytics collection will disable both the legacy and new analytics collection systems. You can disable analytics
collecting by running "flutter --disable-telemetry"

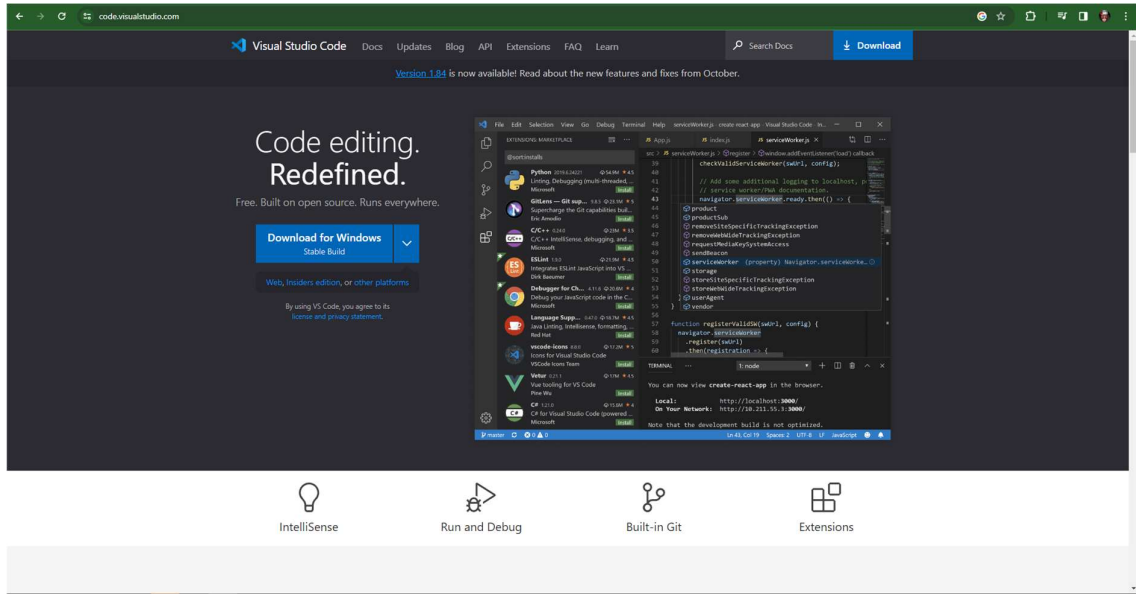
C:\Flutter\Flutter\bin>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.13.9, on Microsoft Windows [Version 10.0.19045.3448], locale en-US)
[✓] Windows Version (installed version of Windows is version 10 or higher)
[✗] Android toolchain - develop for Android devices
    Unable to locate Android SDK.
    Install Android Studio from: https://developer.android.com/studio/index.html
    Or 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 1.78.2)
[✓] Connected device (3 available)
[✓] Network resources

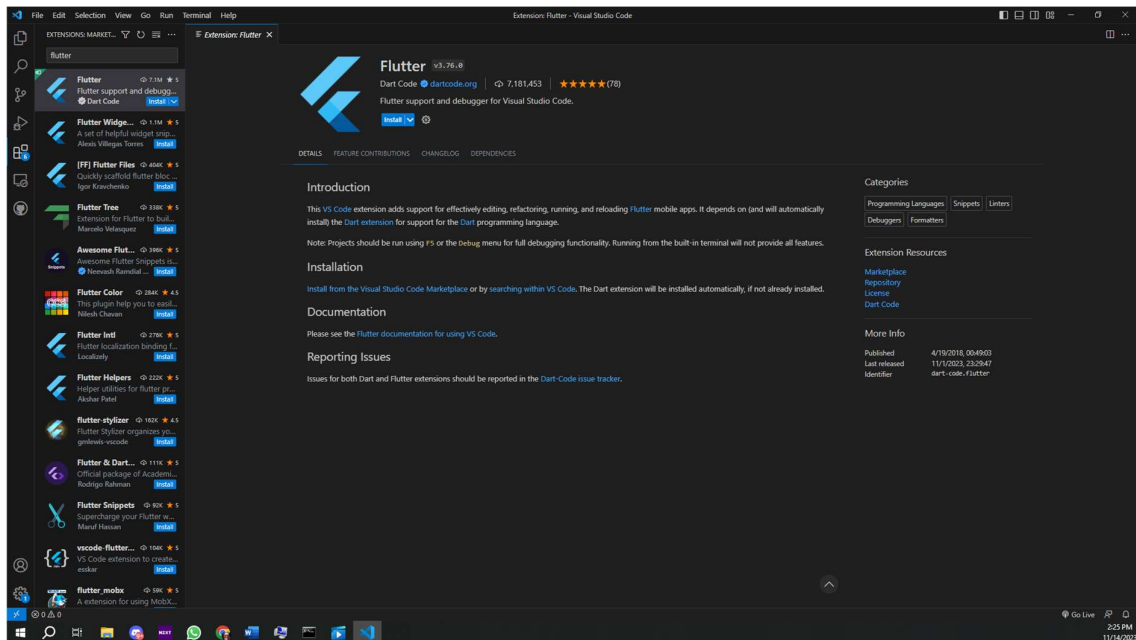
Doctor found issues in 3 categories.

C:\Flutter\Flutter\bin>
```

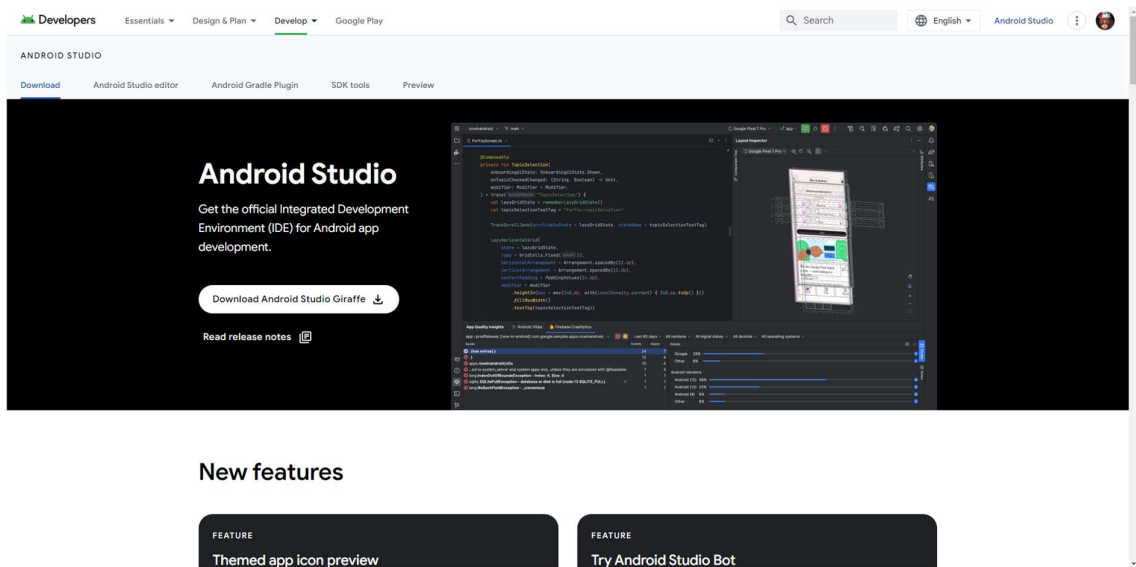
## 8. Install Visual Studio Code: <https://code.visualstudio.com/>



## Install Flutter extension in Visual Studio Code



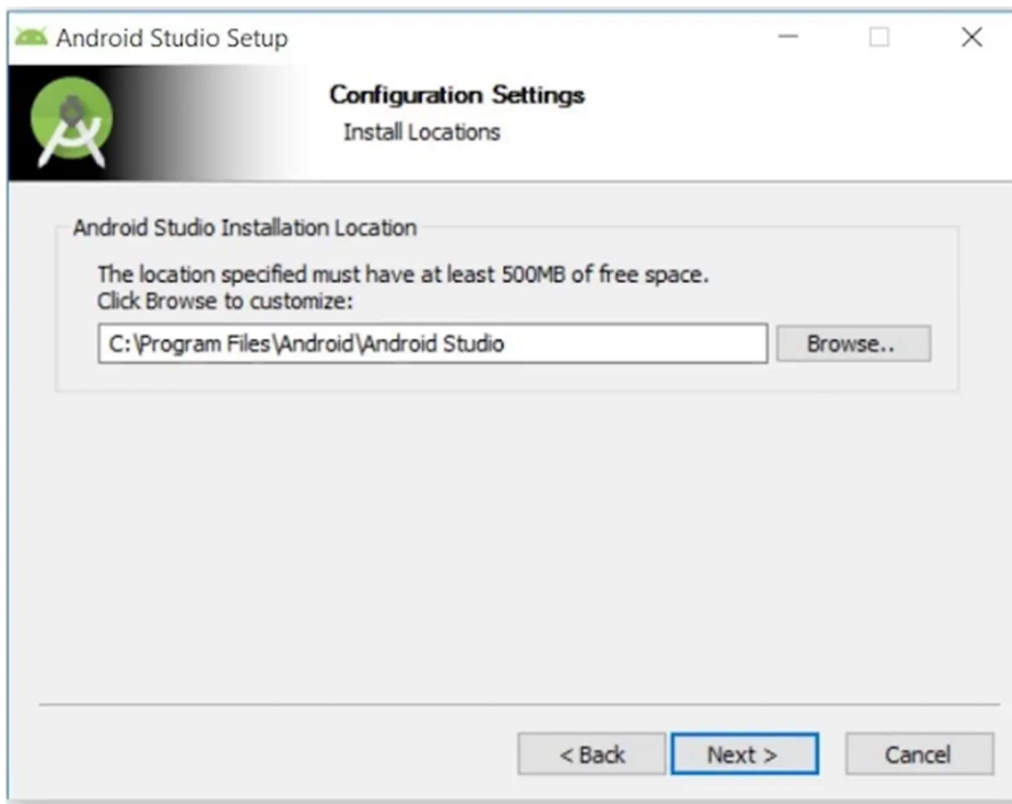
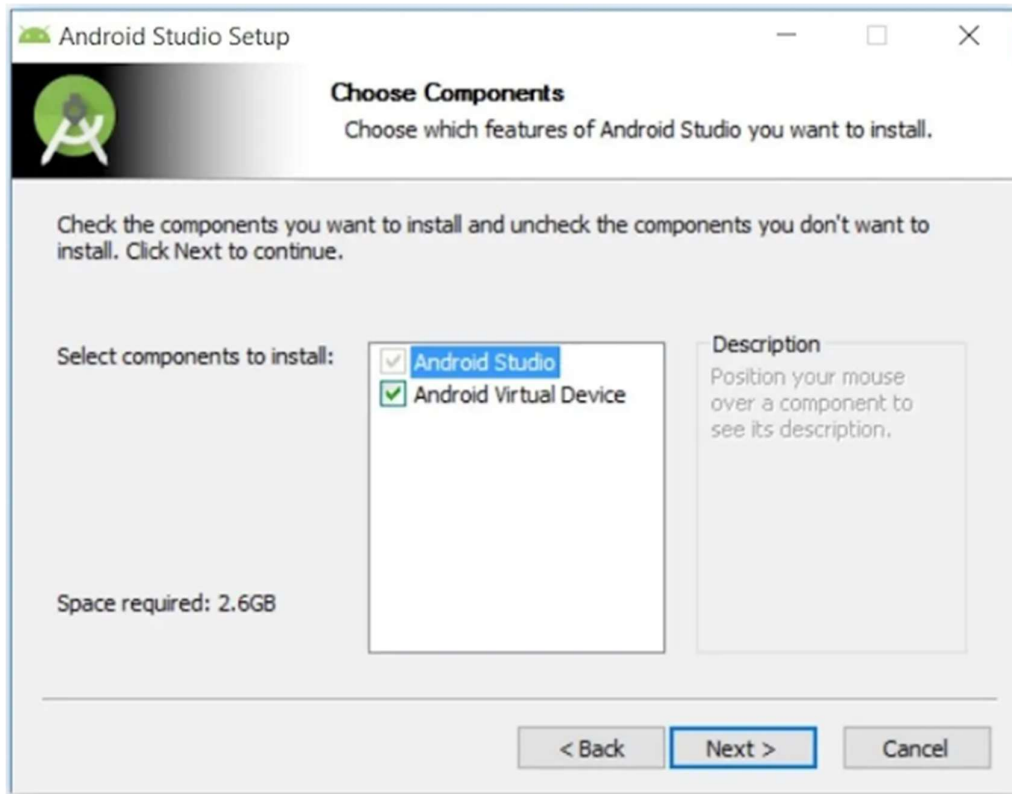
9. Install Android Studio: <https://developer.android.com>



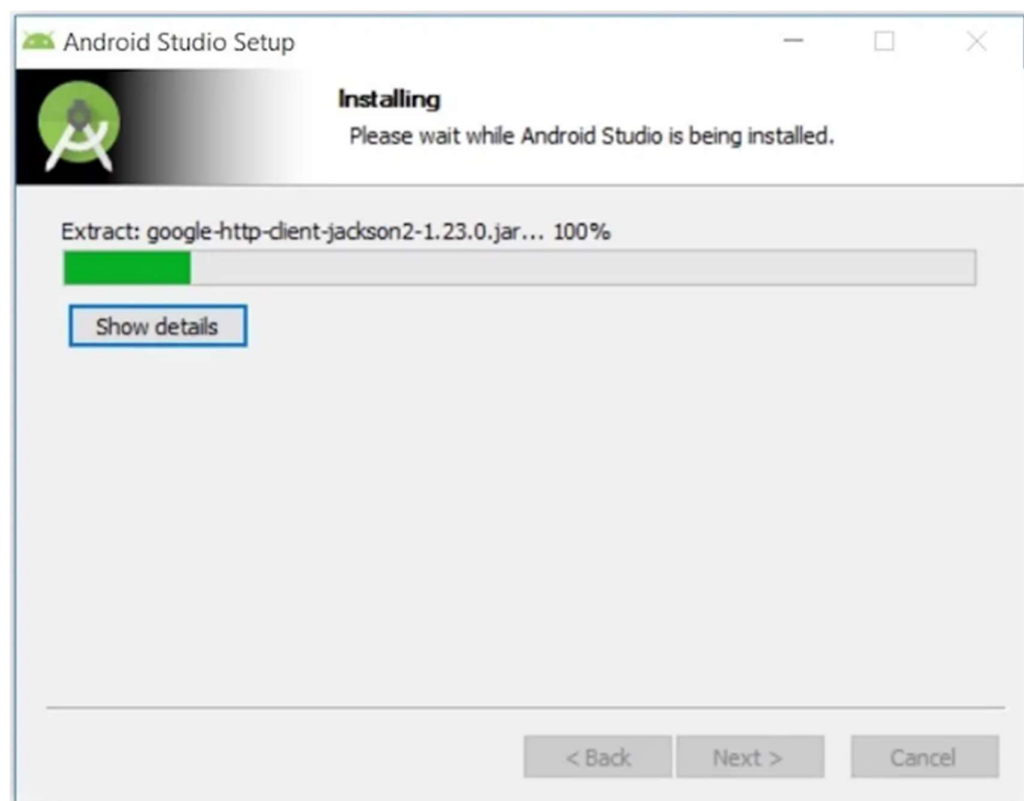
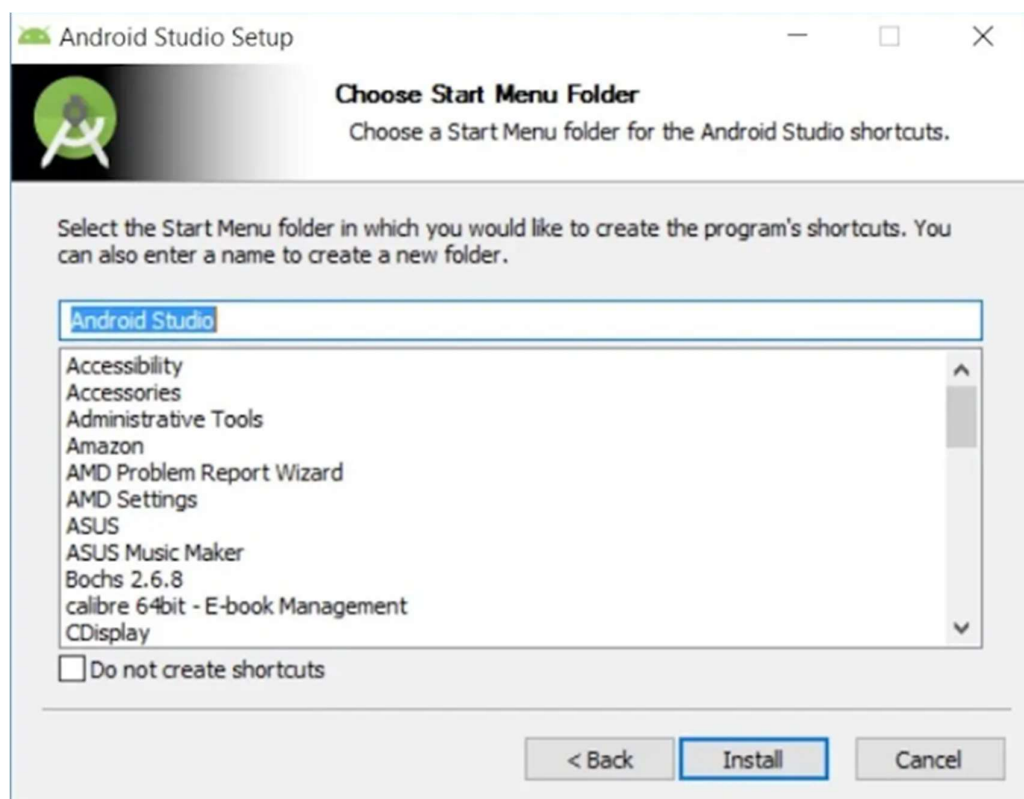
10. Android Studio Install Tutorial

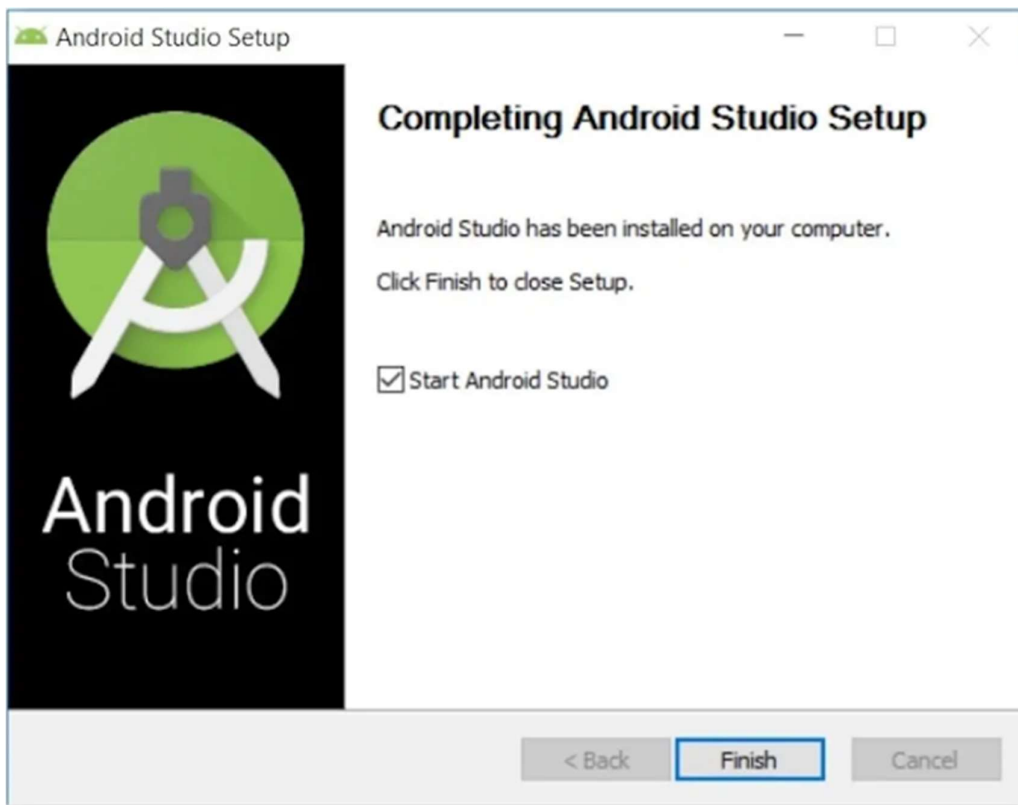
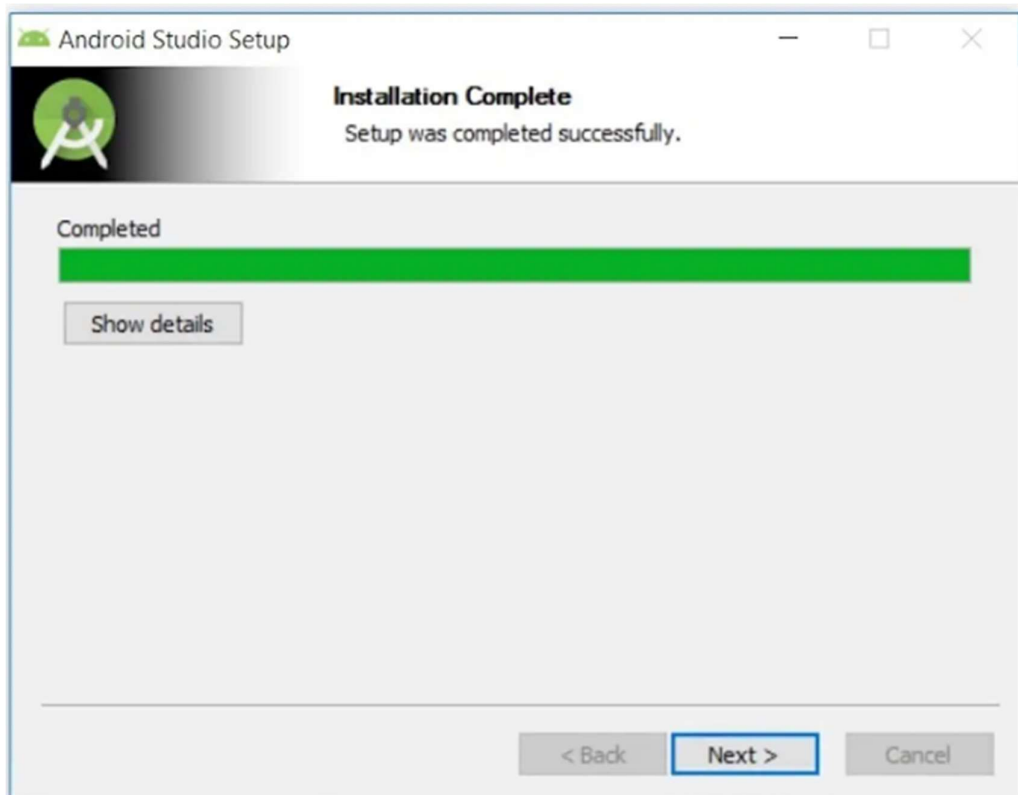


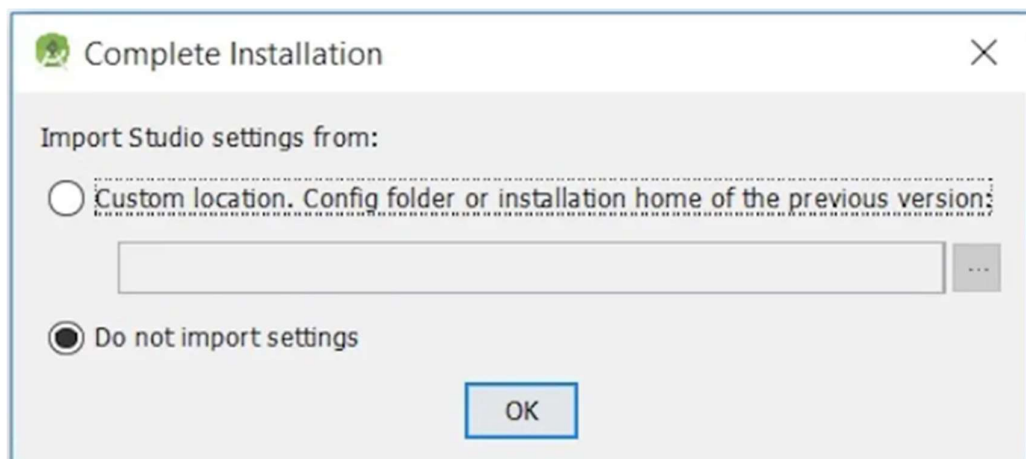


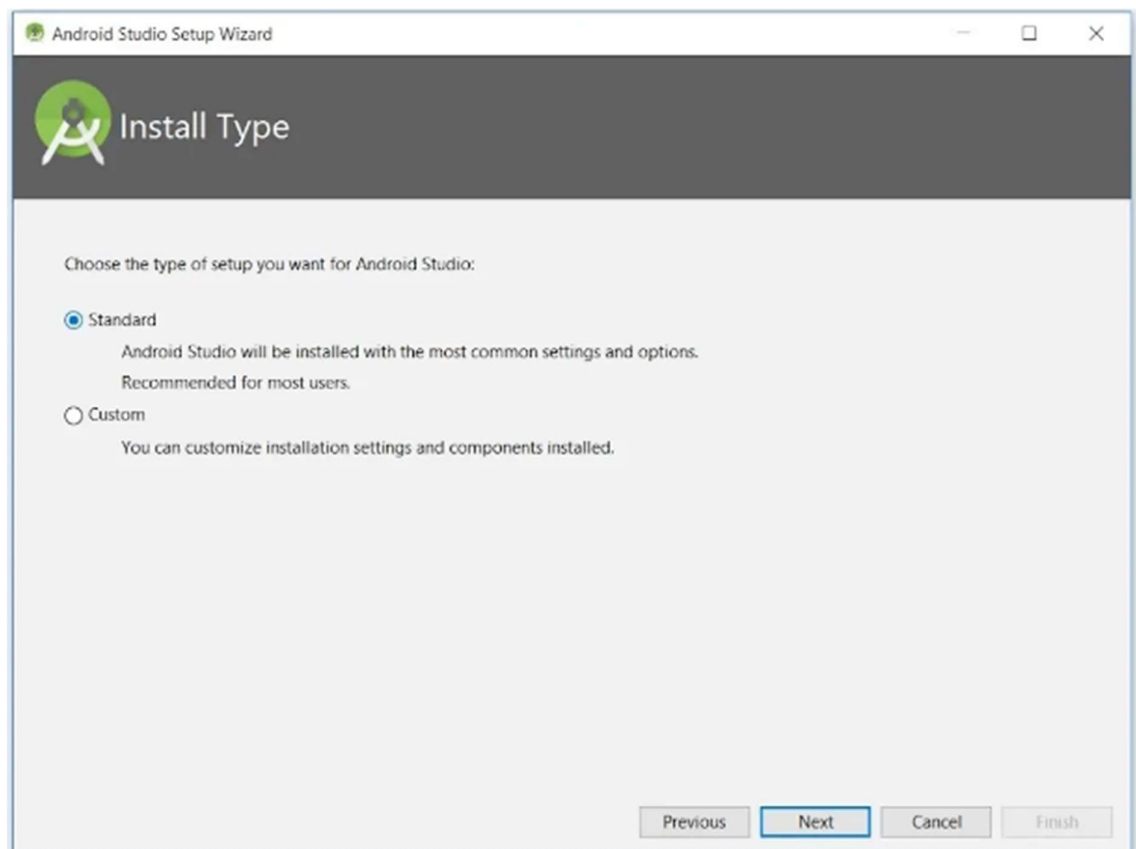
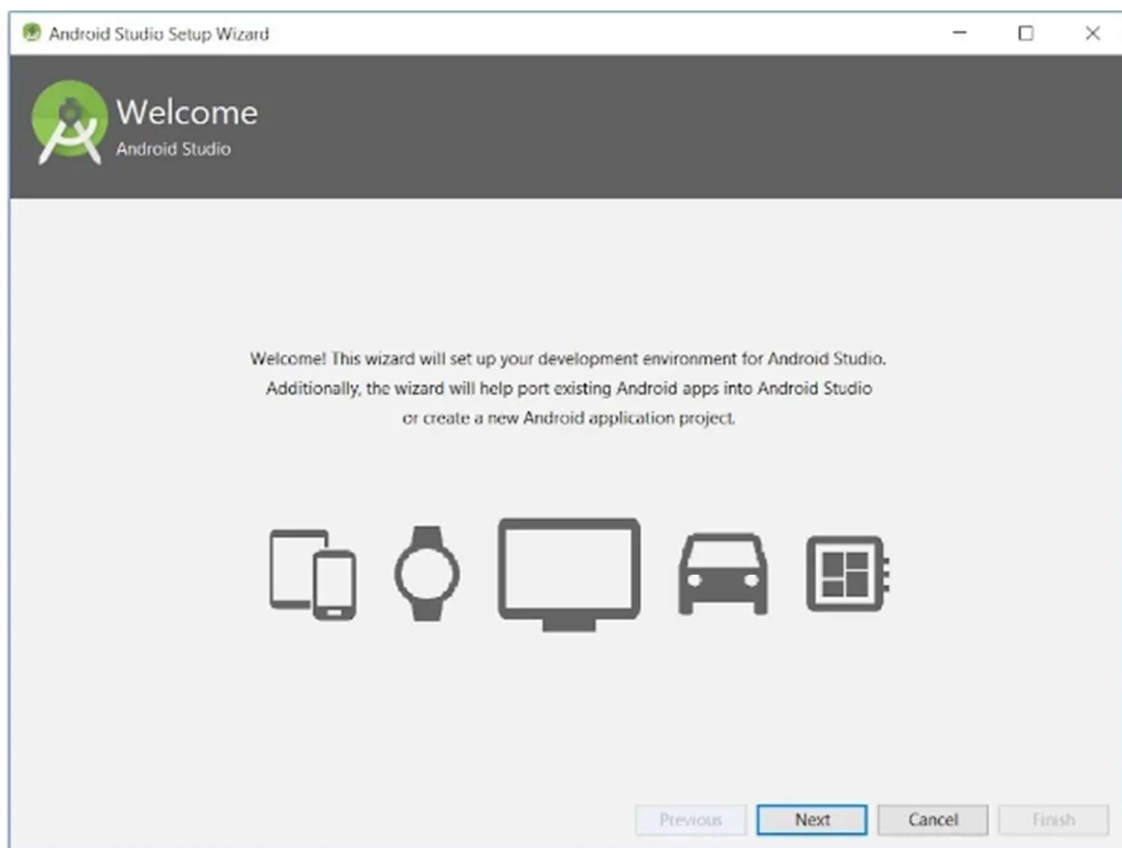


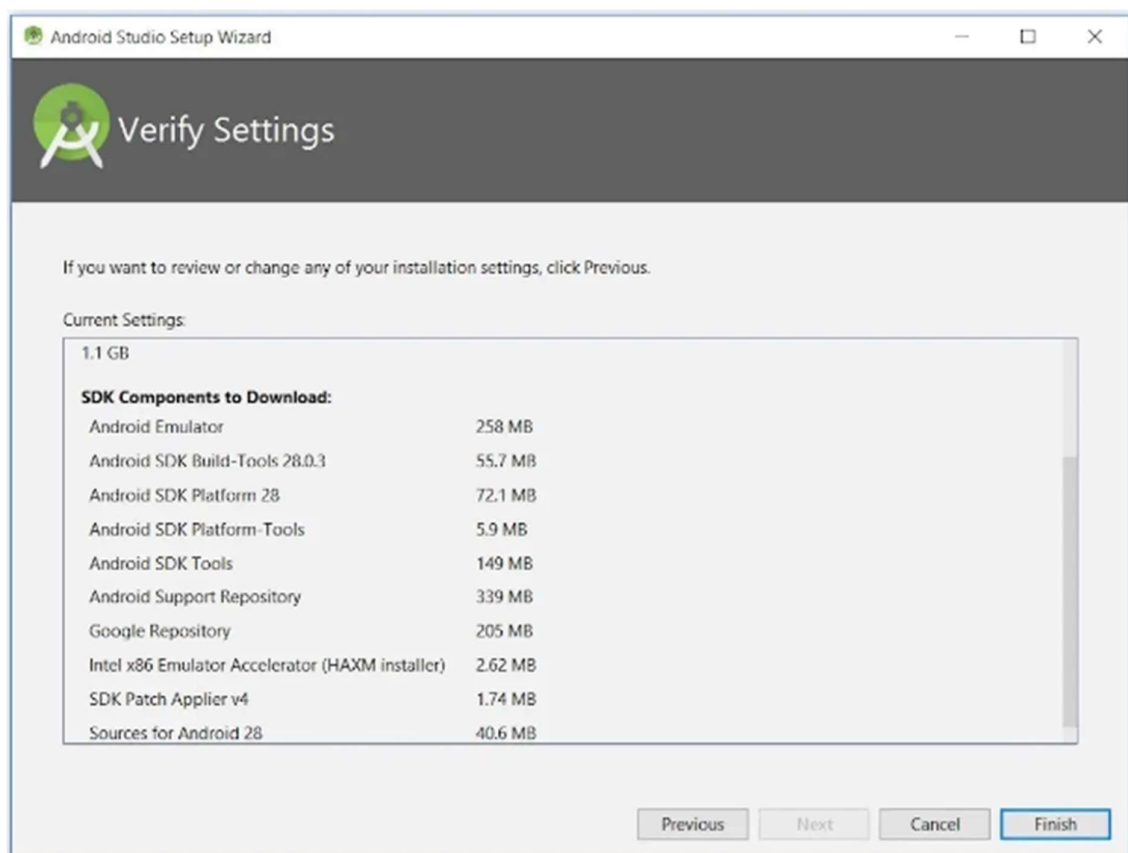
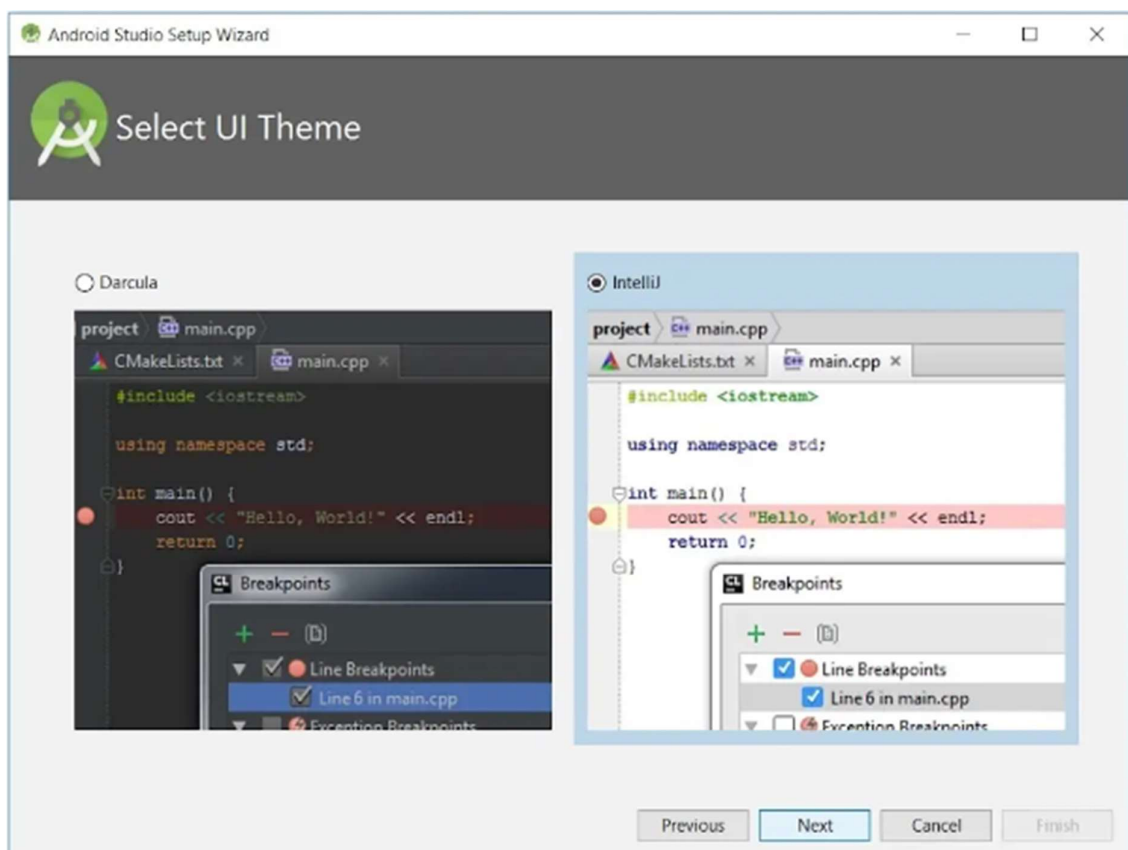


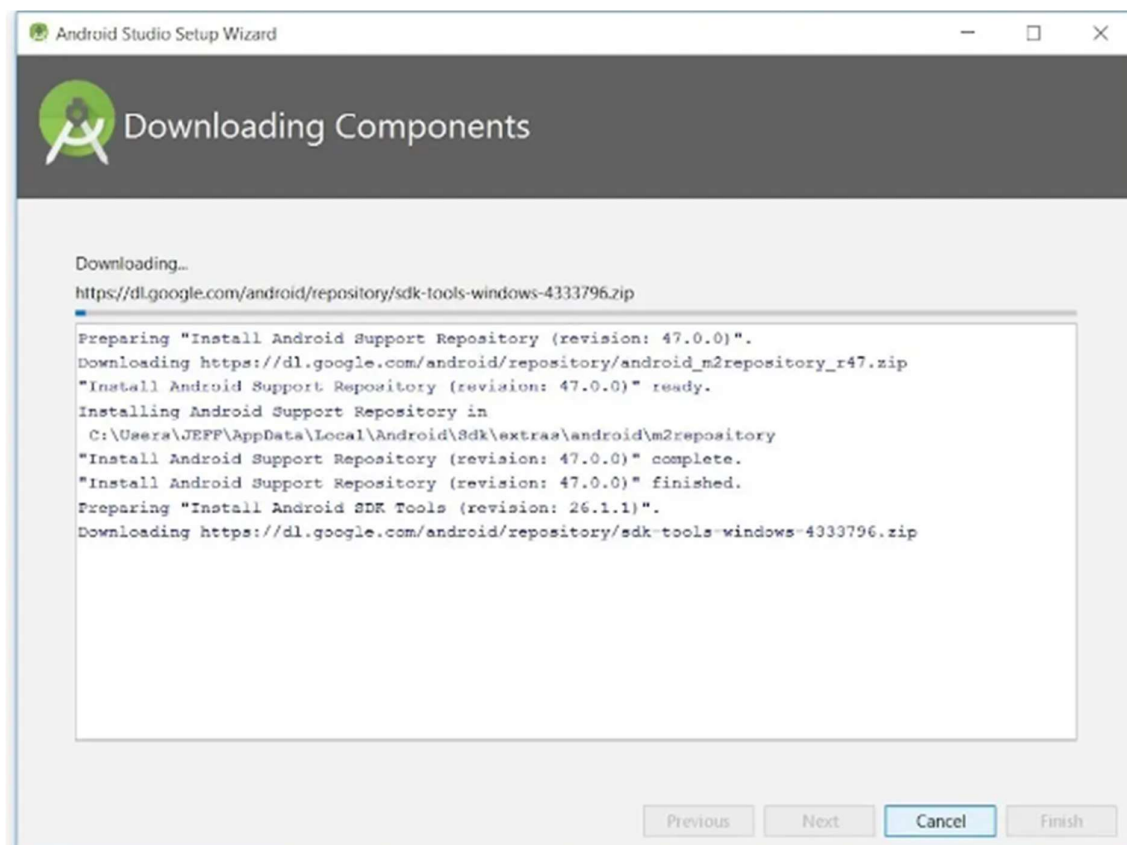
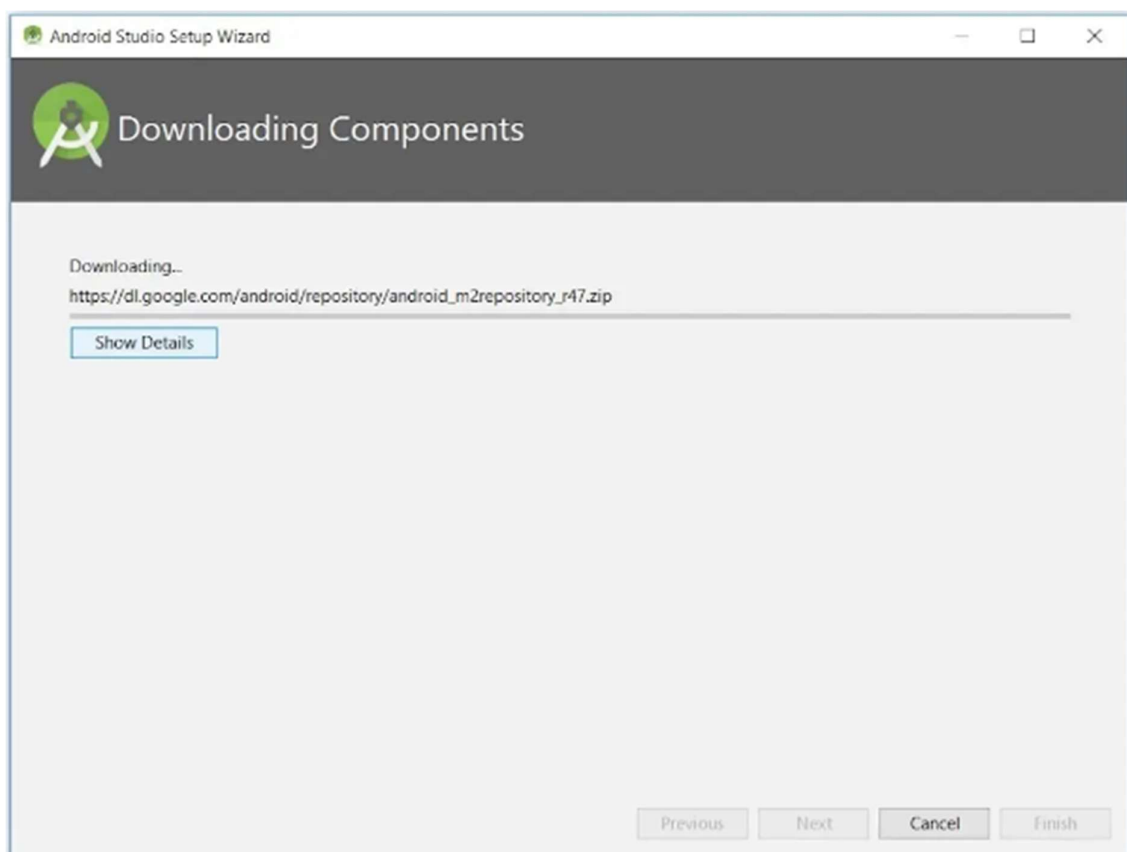


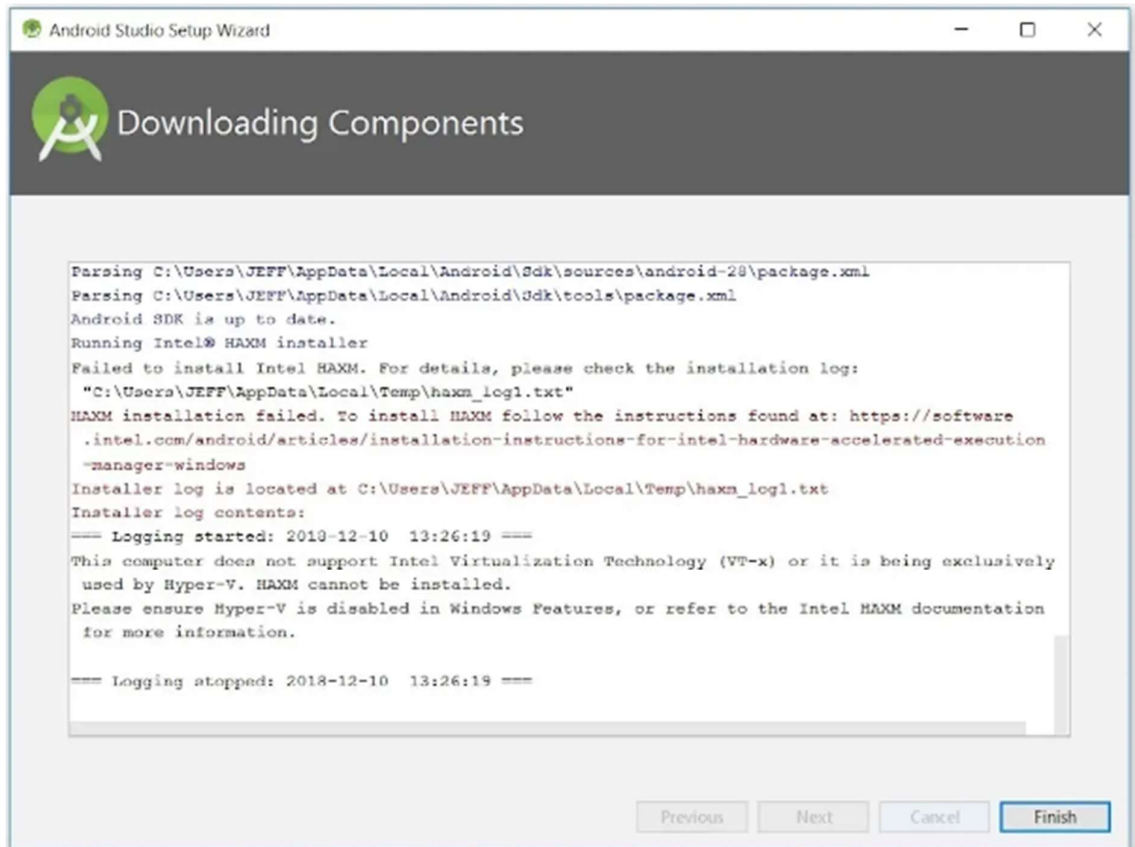




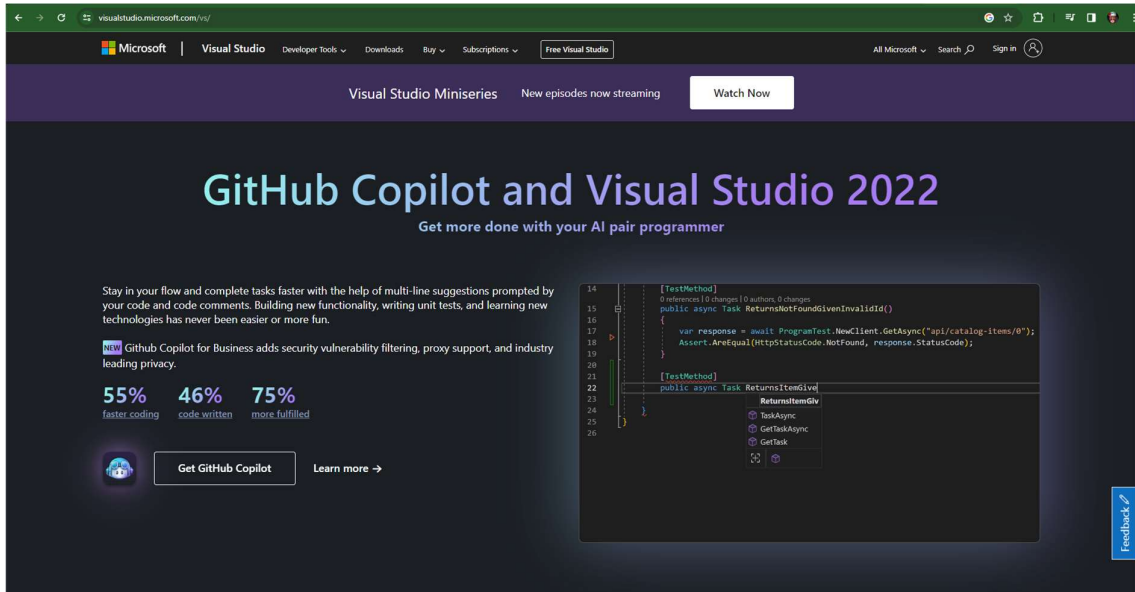




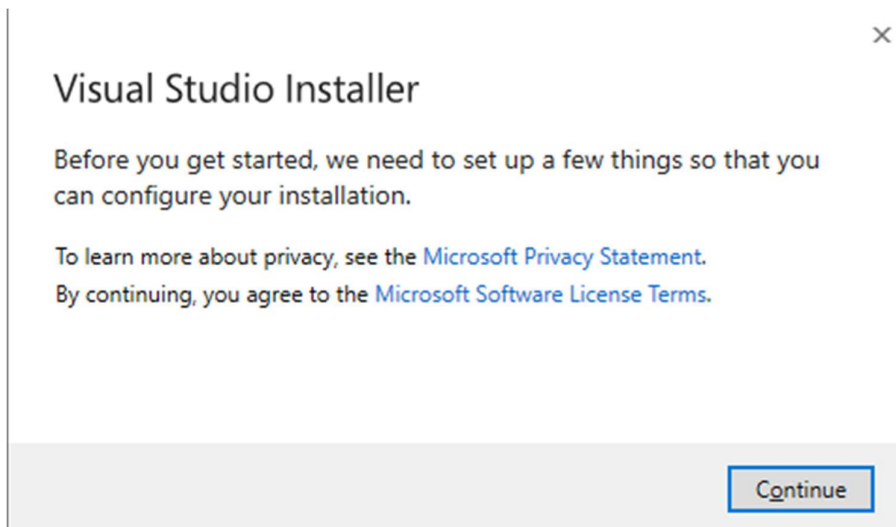




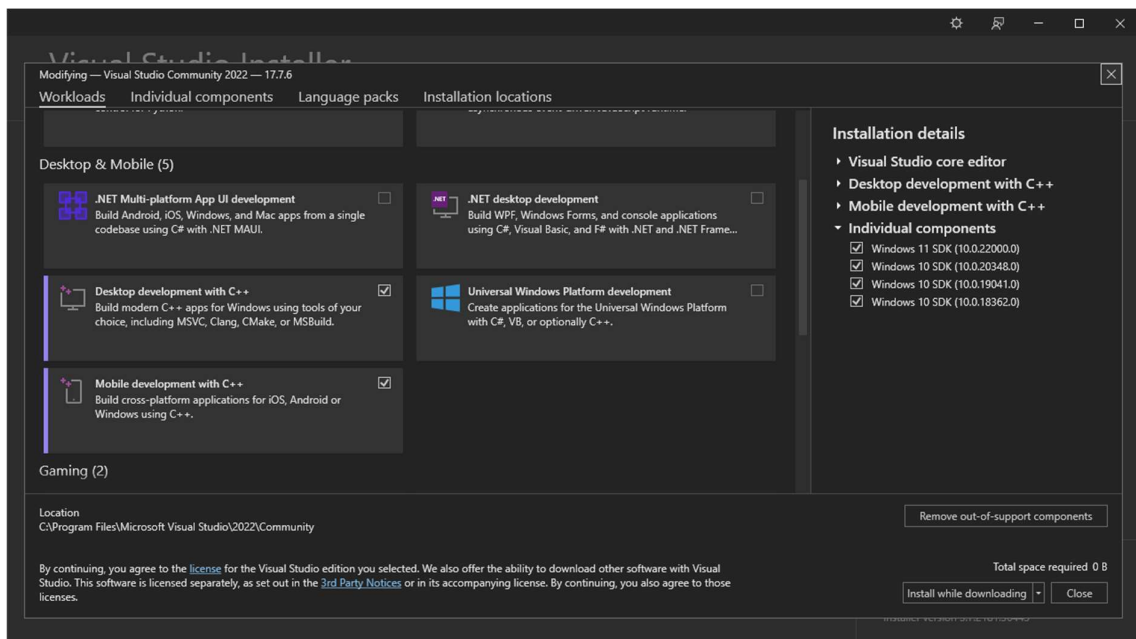
11. Visual Studio Install : <https://visualstudio.microsoft.com/vs/>







Tick Windows 10 SDK and “Desktop development with C++” and “Mobile development with C++”



12. Write the command “flutter doctor” again if your flutter is complete.

```
C:\flutter\flutter\bin>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.13.9, on Microsoft Windows [Version 10.0.19045.3570], locale en-US)
[✓] 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 (Visual Studio Community 2022 17.7.6)
[✓] Android Studio (version 2022.3)
[✓] VS Code (version 1.78.2)
[✓] Connected device (3 available)
[✓] Network resources
```