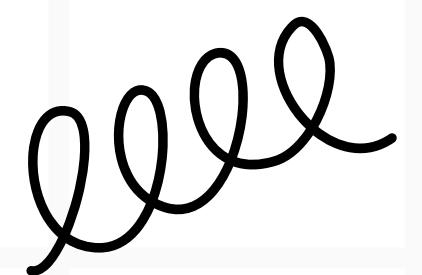
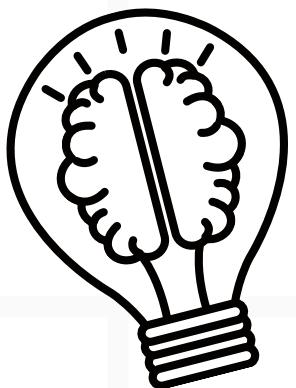


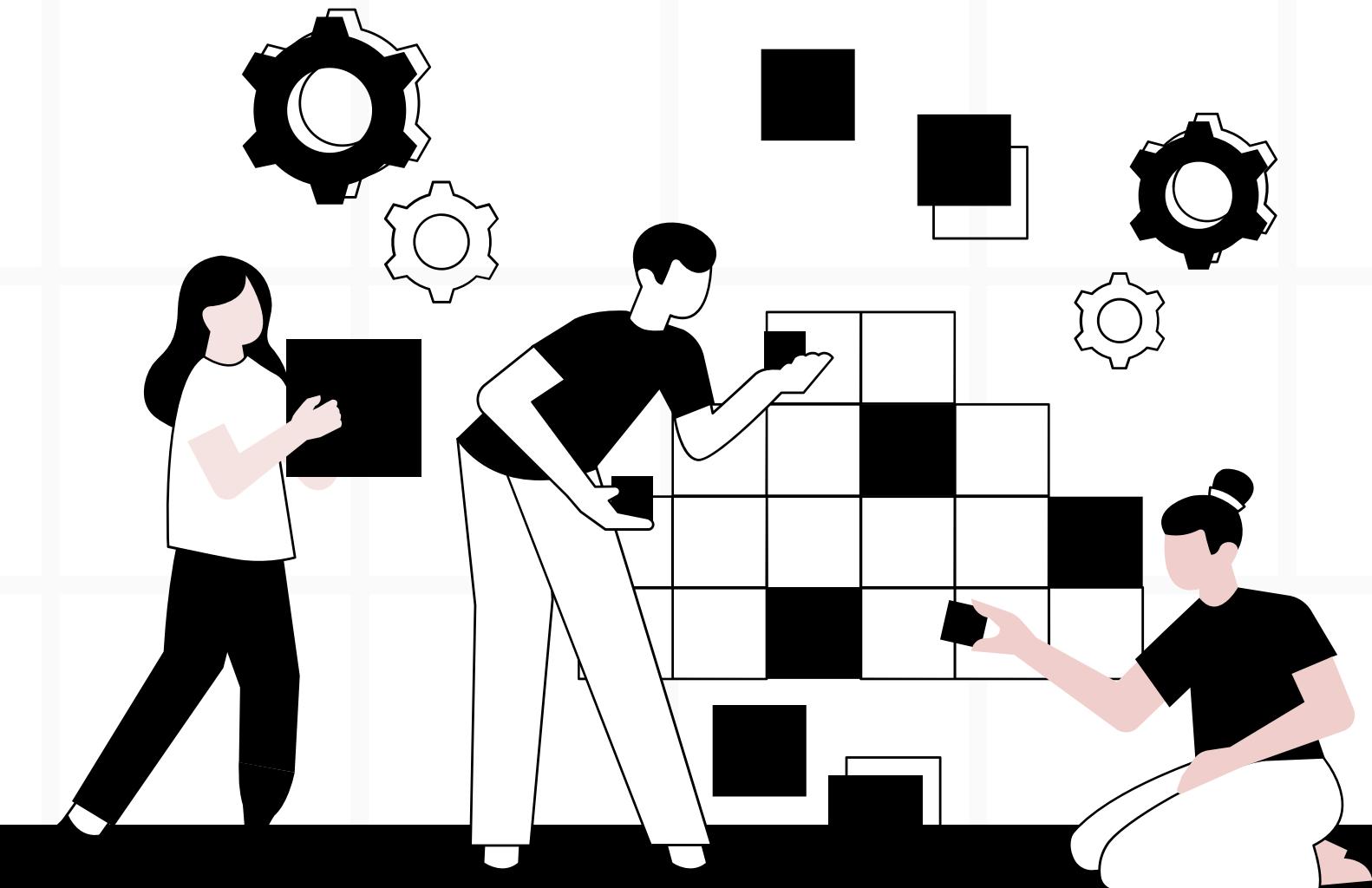
INSTALLASI FLUTTER

Dibuat oleh
Andrea Surya Habibie, ST



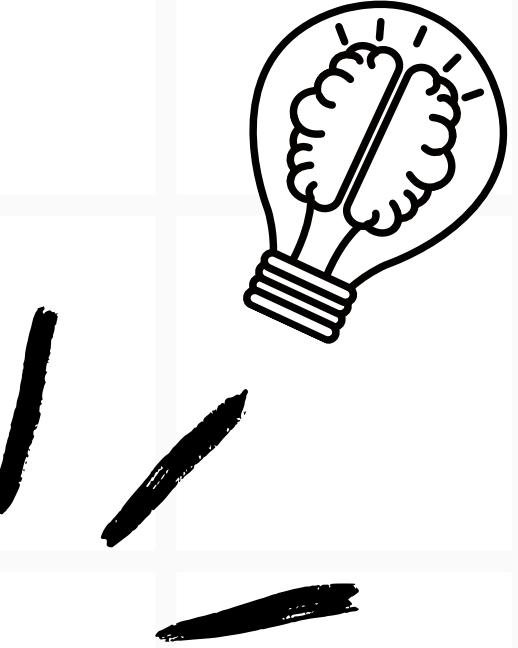
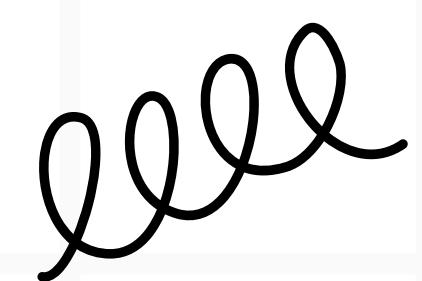
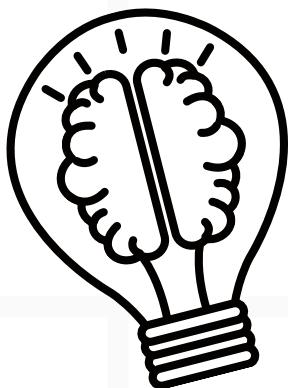
DAFTAR ISI

1. Pendahuluan
2. Instalasi Flutter
3. Ringkasan & Penutup



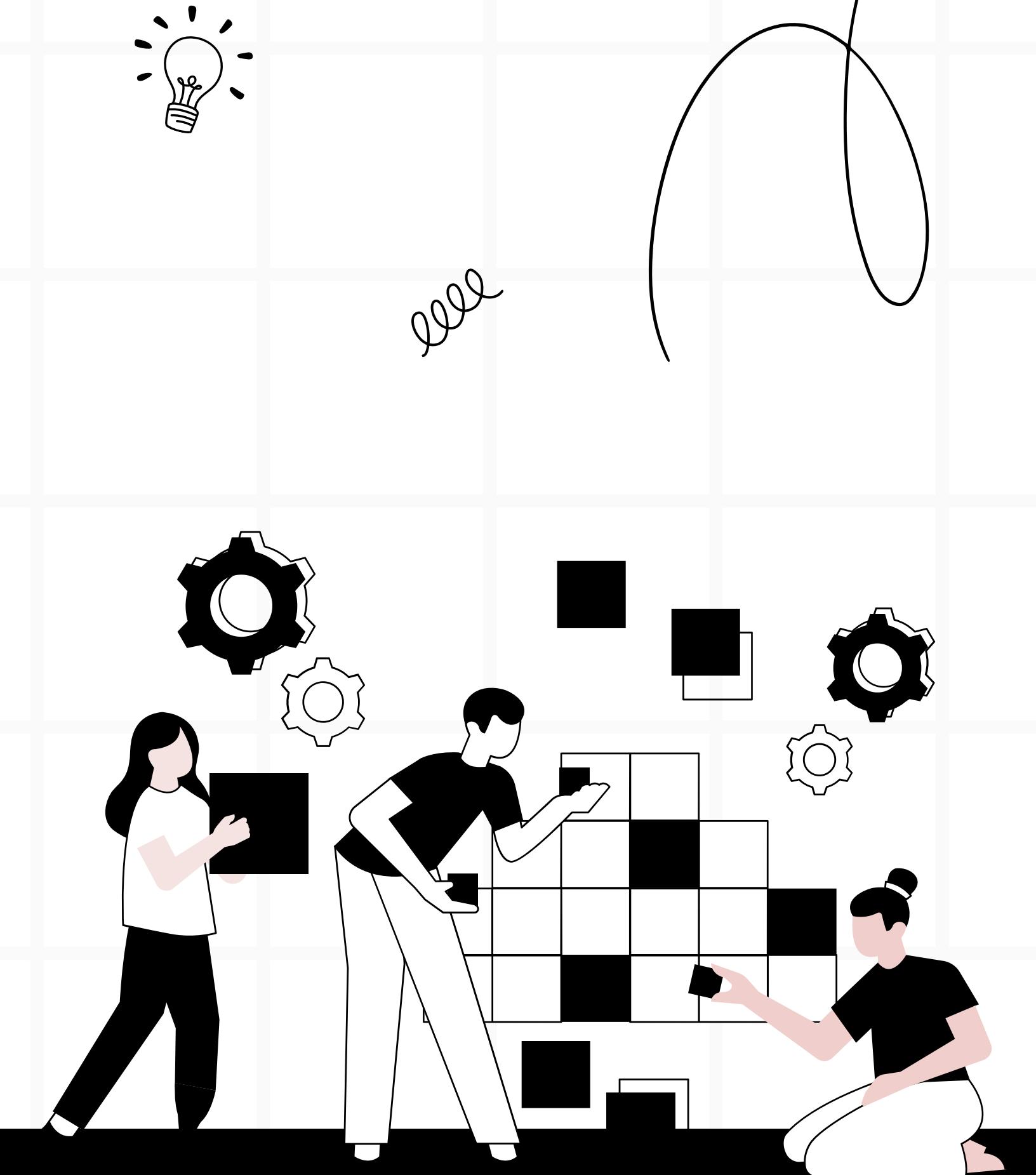


PENDAHULUAN



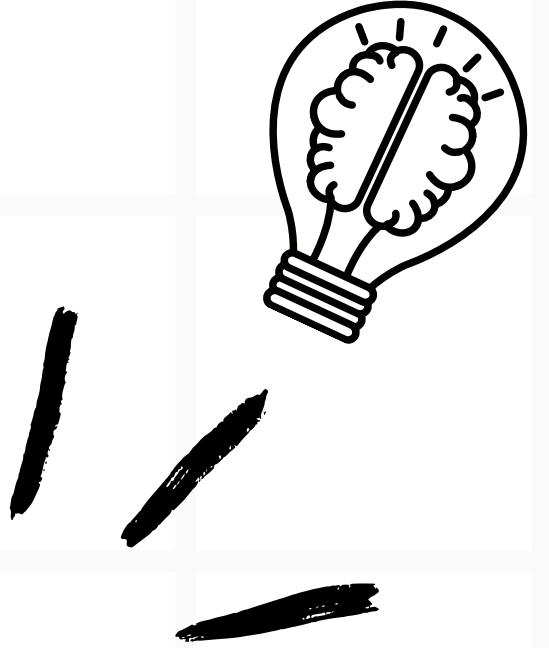
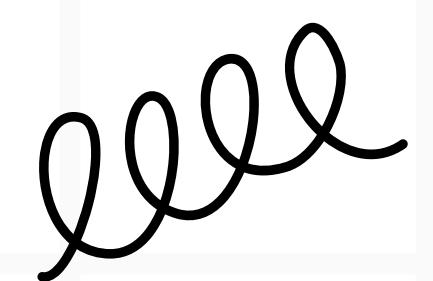
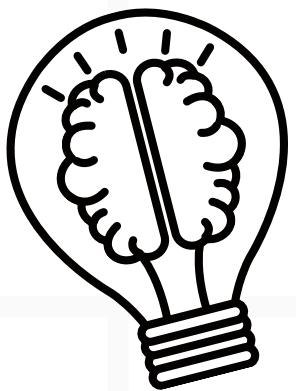
PERSYARATAN (SPESIFIKASI)

- **OS yang Didukung:**
 - Windows, macOS, atau Linux
- **Ruang Penyimpanan:**
 - Minimal 2,5 GB (belum termasuk Android Studio)
- **Alat Pengembangan:**
 - Android Studio (untuk emulator Android)
 - Xcode (macOS, untuk iOS)
 - Git (untuk manajemen versi)
 - Editor (VS Code, Android Studio, IntelliJ IDEA, dll.)





INSTALLASI



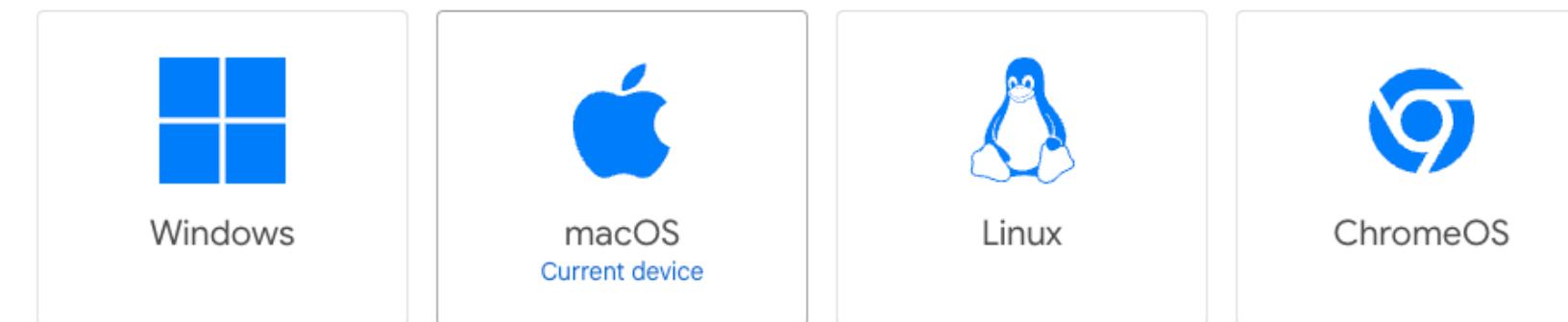


LANGKAH 1: UNDUH FLUTTER SDK

- Kunjungi: docs.flutter.dev/get-started/install
- Pilih paket sesuai OS (Windows: .zip, macOS: .dmg / .zip, Linux: .tar.xz)

Choose your development platform to get started

[Get started](#) > [Install](#)



[ⓘ Developing in China](#)

If you want to use Flutter in China, check out [using Flutter in China](#). If you're not developing in China, ignore this notice and follow the other instructions on this page.

如果你正在中国的网络环境下配置 Flutter, 请参考 [在中国网络环境下使用 Flutter 文档](#).



LANGKAH 1: UNDUH FLUTTER SDK

Install the Flutter SDK

To install the Flutter SDK, you can use the VS Code Flutter extension or download and install the Flutter bundle yourself.

Use VS Code to install

Download and install

Download then install Flutter

To install Flutter, download the Flutter SDK bundle from its archive, move the bundle to where you want it stored, then extract the SDK.

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

[flutter_windows_3.29.0-stable.zip](#)

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

The Flutter SDK should download to the Windows default download directory: `%USERPROFILE%\Downloads`.

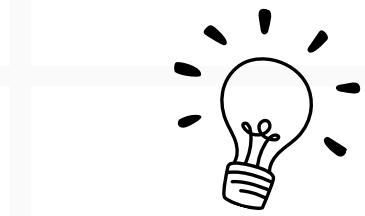
If you changed the location of the Downloads directory, replace this path with that path. To find your Downloads directory location, check out this [Microsoft Community post](#).

2. Create a folder where you can install Flutter.

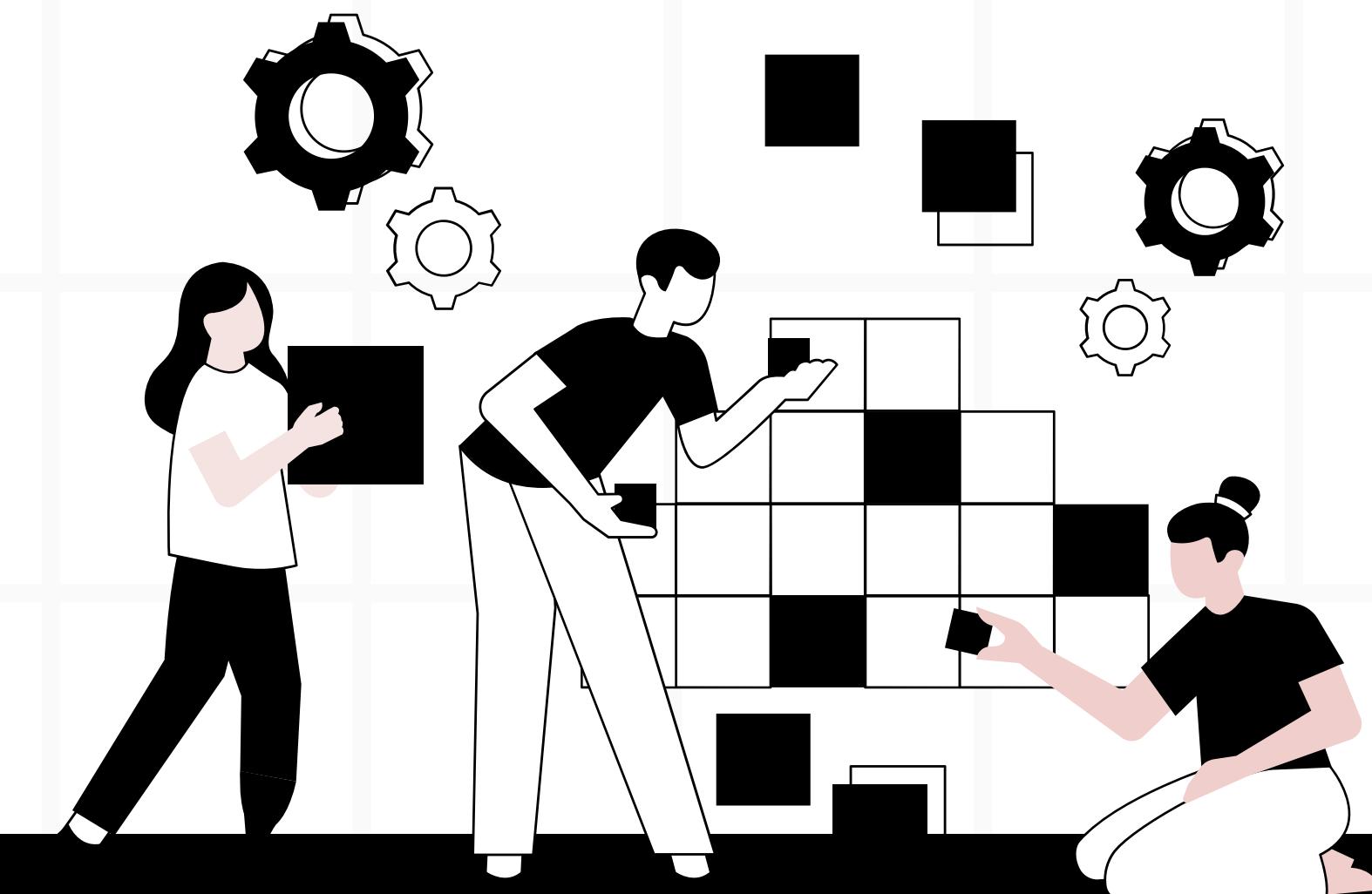
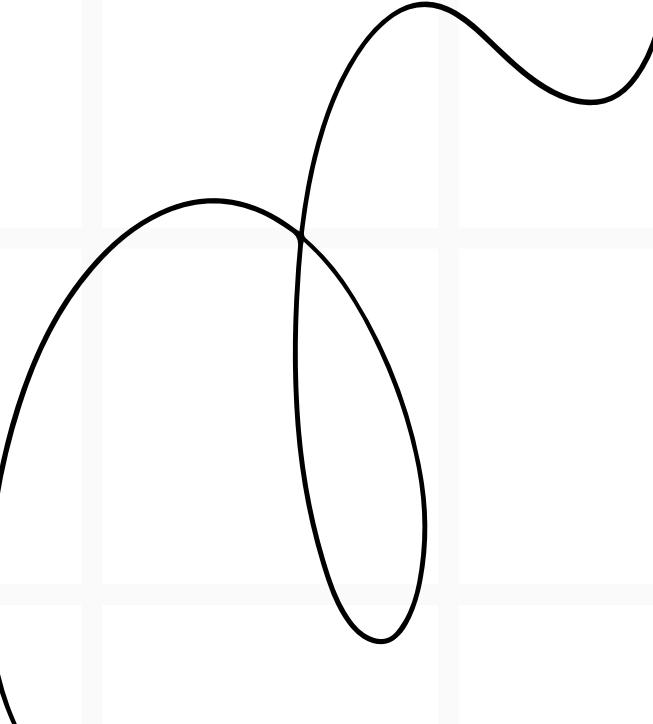
Consider creating a directory at `%USERPROFILE%` (`C:\Users\{username}`) or `%LOCALAPPDATA%` (`C:\Users\{username}\AppData\Local`).

LANGKAH 1: UNDUH FLUTTER SDK

- Ekstrak ke folder, misalnya:
- Windows: C:\src\flutter
- macOS: ~/flutter
- Linux: /home/user/flutter

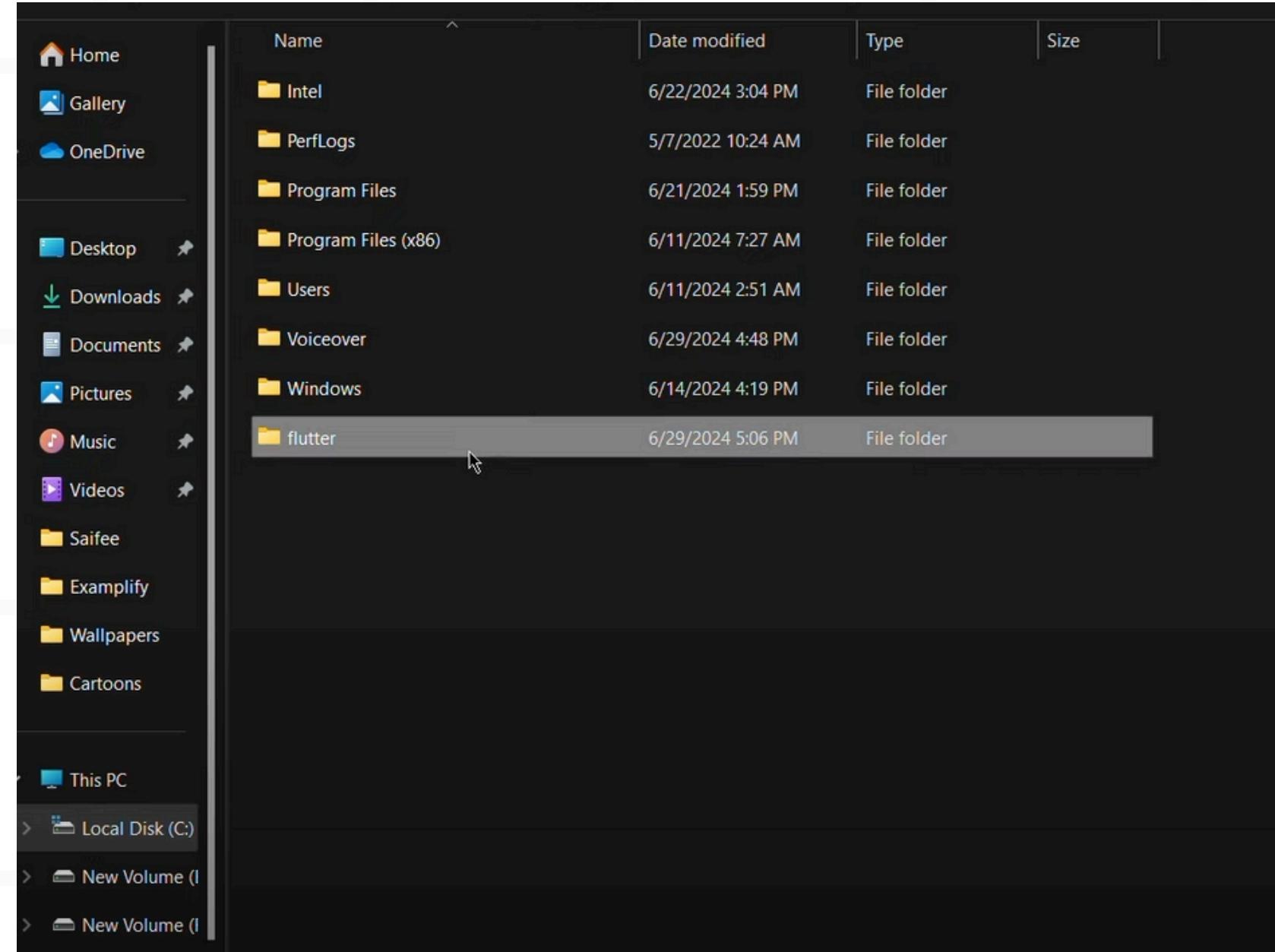


eee





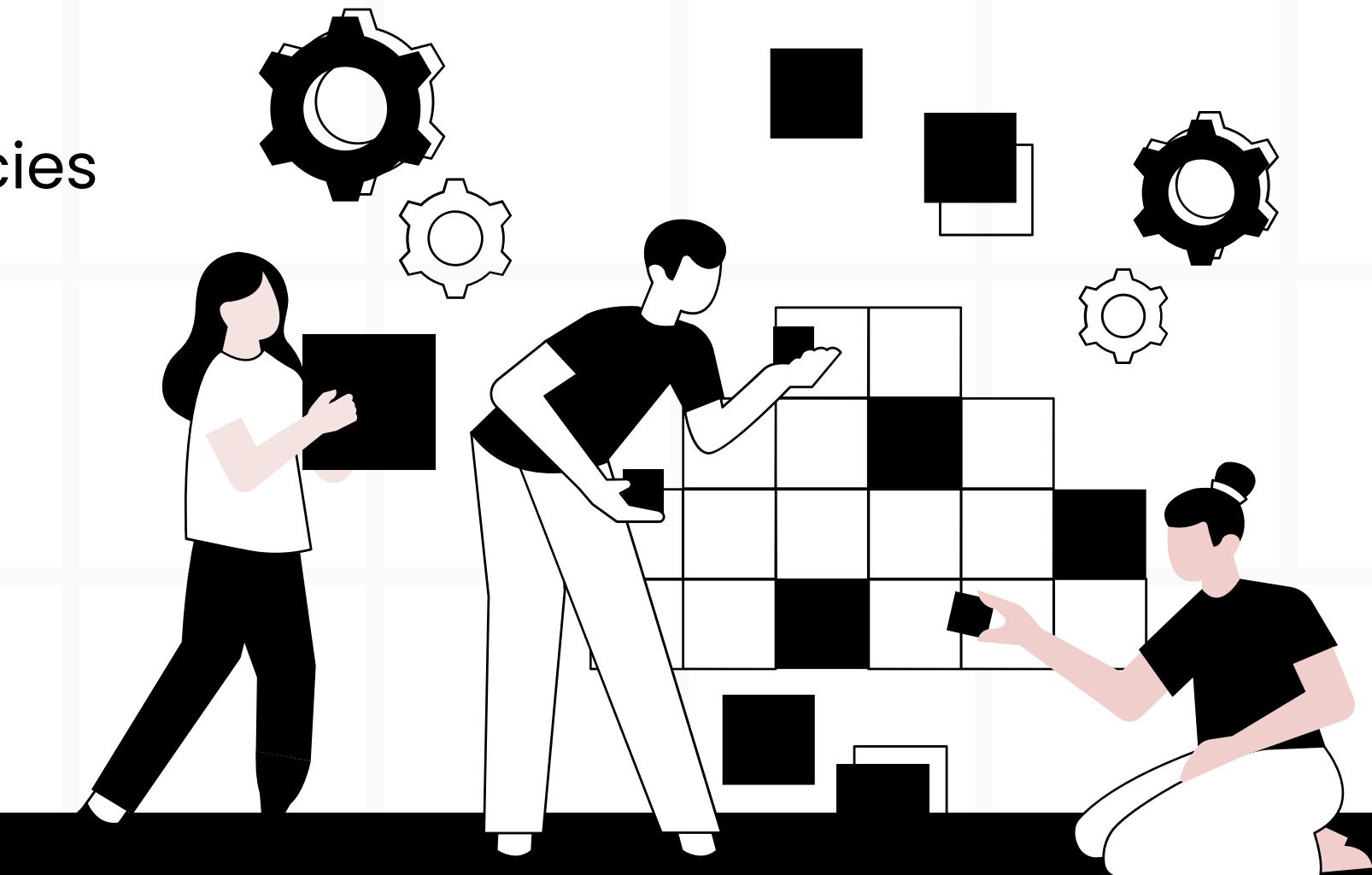
LANGKAH 1: UNDUH FLUTTER SDK





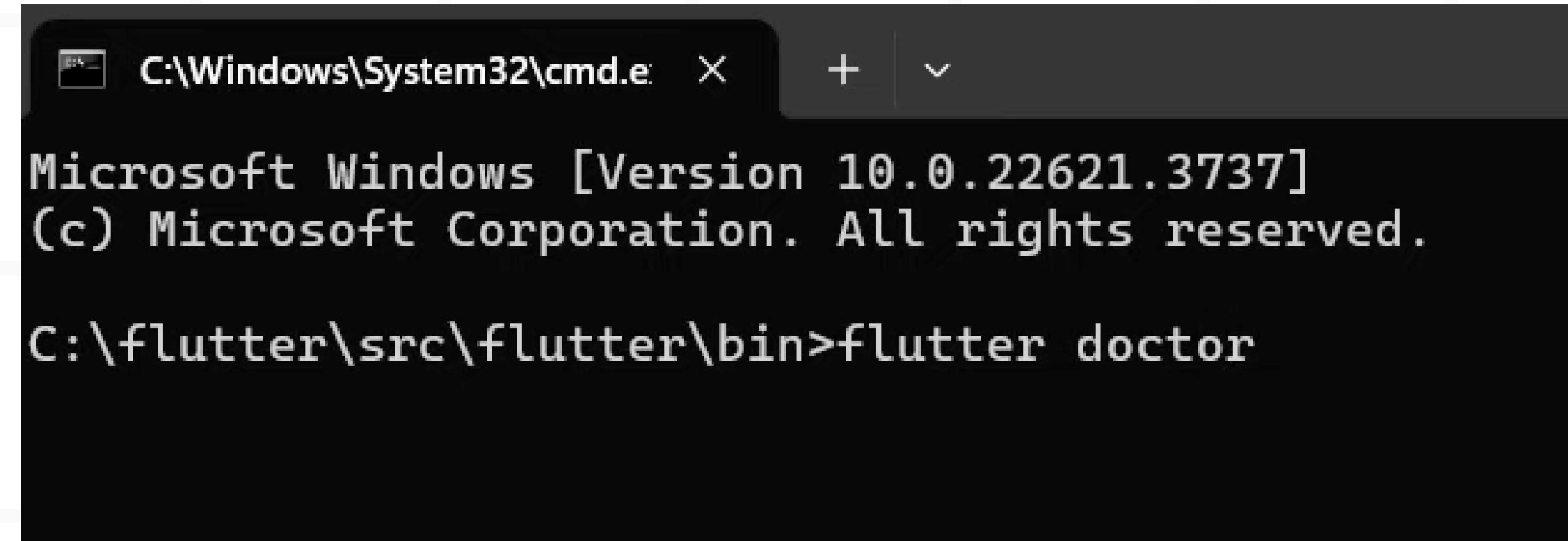
LANGKAH 2: VERIFIKASI DENGAN FLUTTER DOCTOR

- Buka Terminal / Command Prompt
- Ketik flutter doctor
- Ikuti petunjuk untuk memperbaiki dependencies yang belum terinstal





LANGKAH 2: VERIFIKASI DENGAN FLUTTER DOCTOR

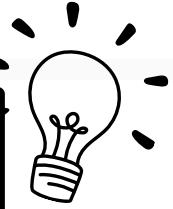


```
C:\Windows\System32\cmd.exe X + ▾
Microsoft Windows [Version 10.0.22621.3737]
(c) Microsoft Corporation. All rights reserved.

C:\flutter\src\flutter\bin>flutter doctor
```



LANGKAH 2: VERIFIKASI DENGAN FLUTTER DOCTOR



```
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.22.2, on Microsoft Windows [Version 10.0.22621.3737], 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
      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 1.90.0)
[✓] Connected device (3 available)
[✓] Network resources

! Doctor found issues in 3 categories.
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,
```



LANGKAH 2: VERIFIKASI DENGAN FLUTTER DOCTOR

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



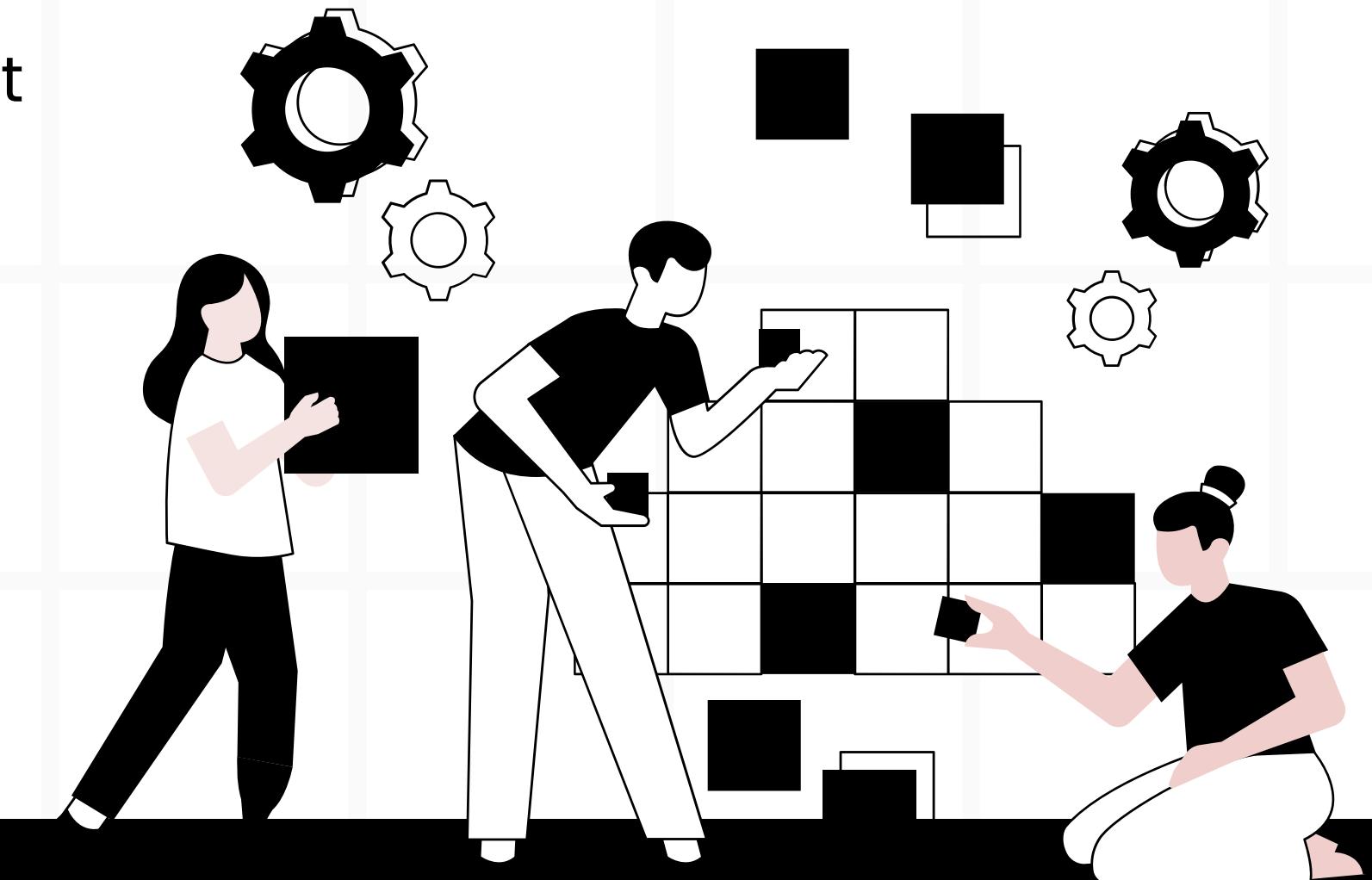
LANGKAH 2: VERIFIKASI DENGAN FLUTTER DOCTOR

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

LANGKAH 3: TAMBAHKAN FLUTTER KE PATH

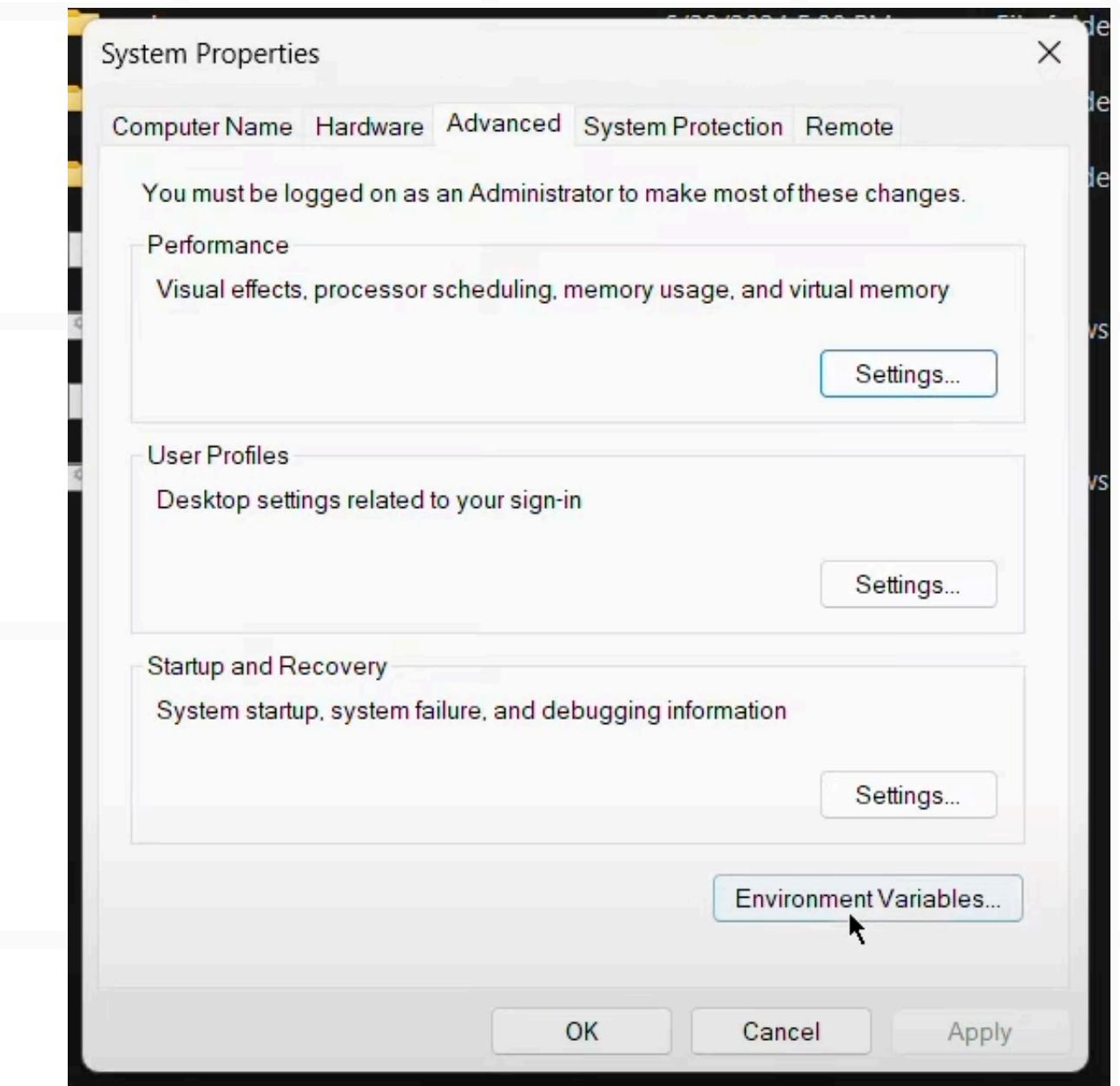
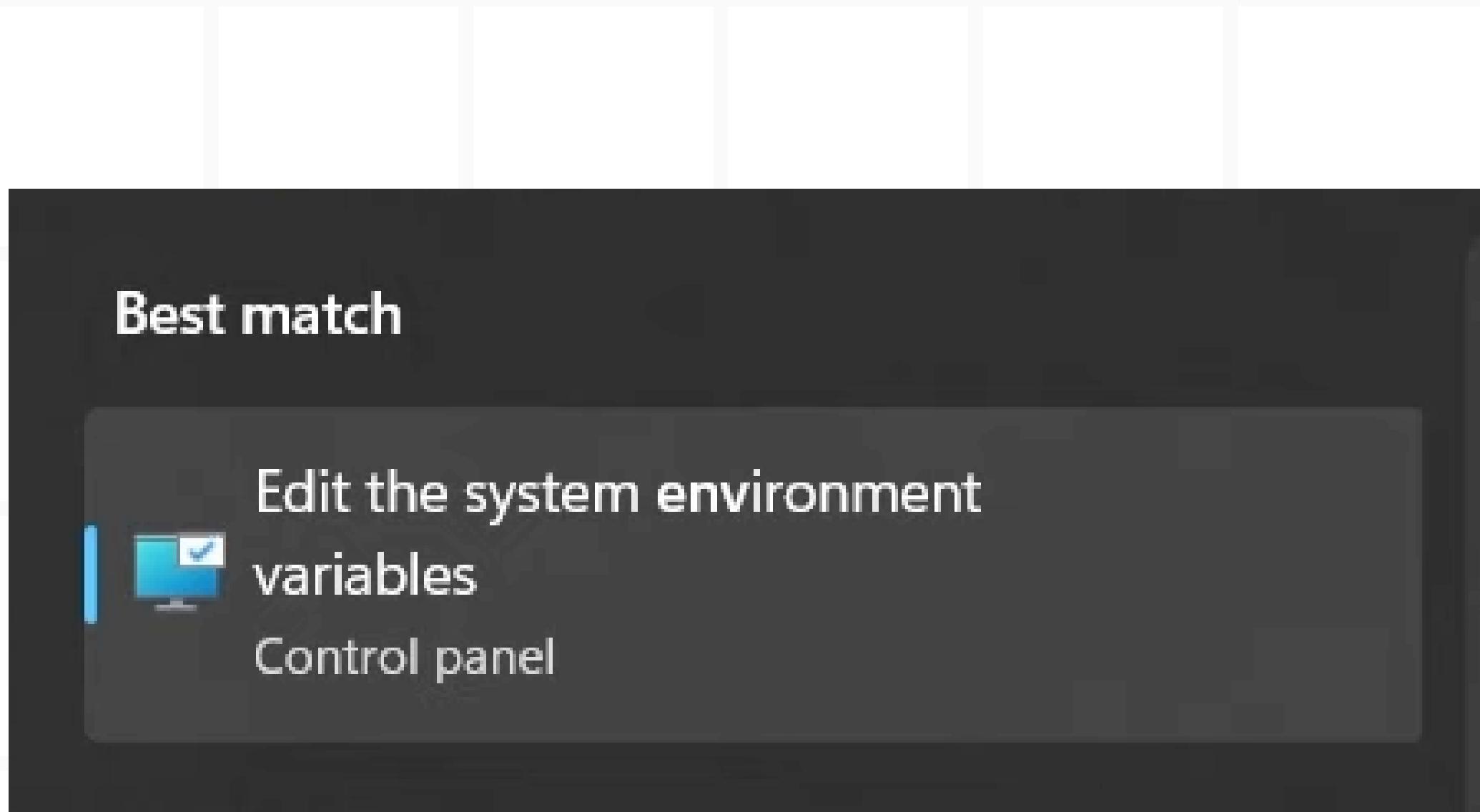


- Windows:
 - Tambahkan C:\src\flutter\bin ke Environment Variables → Path
- macOS/Linux:
 - Edit file ~/.bash_profile atau ~/.zshrc
 - Tambahkan export
PATH="\$PATH:/path/to/flutter/bin"



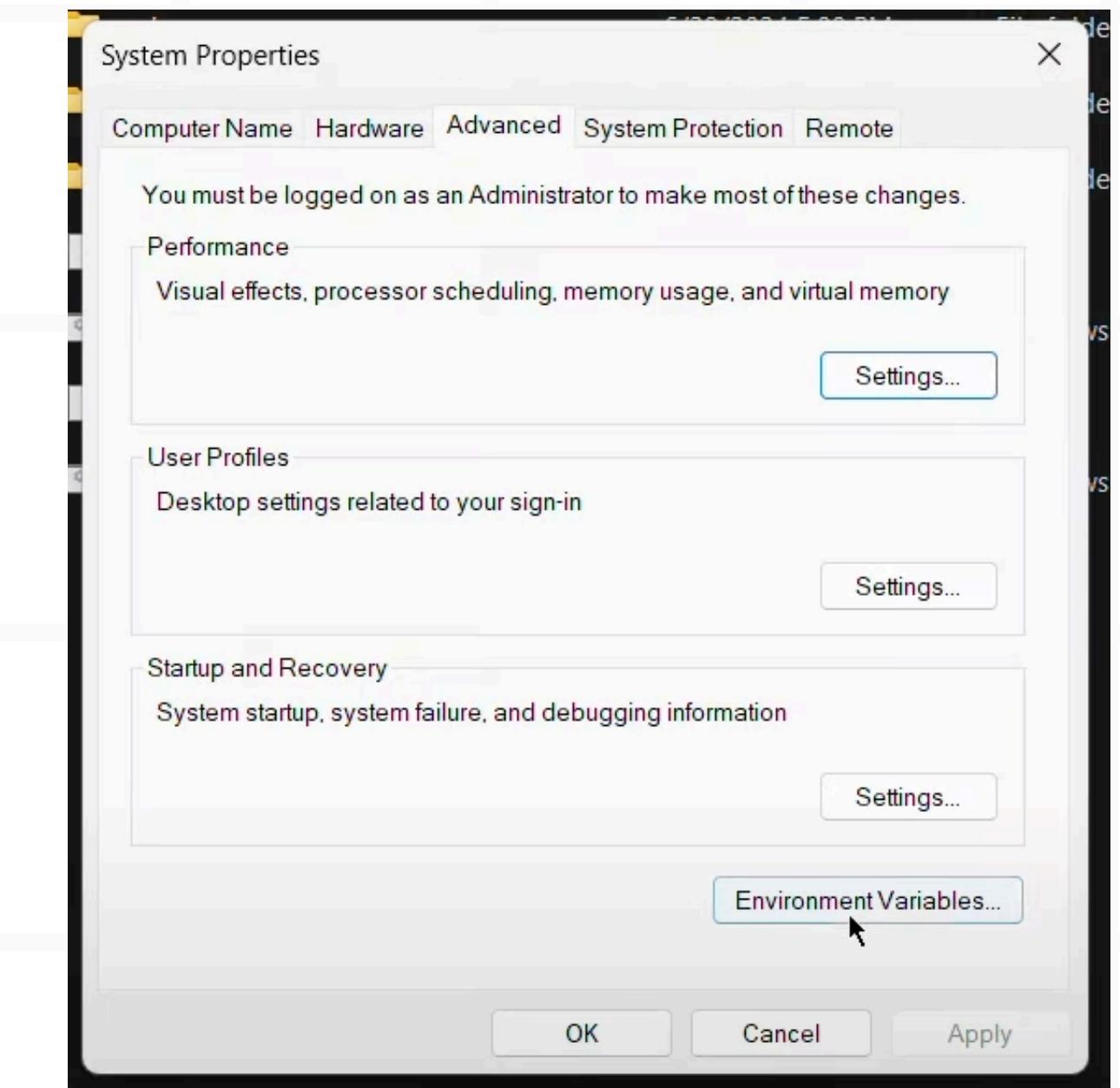
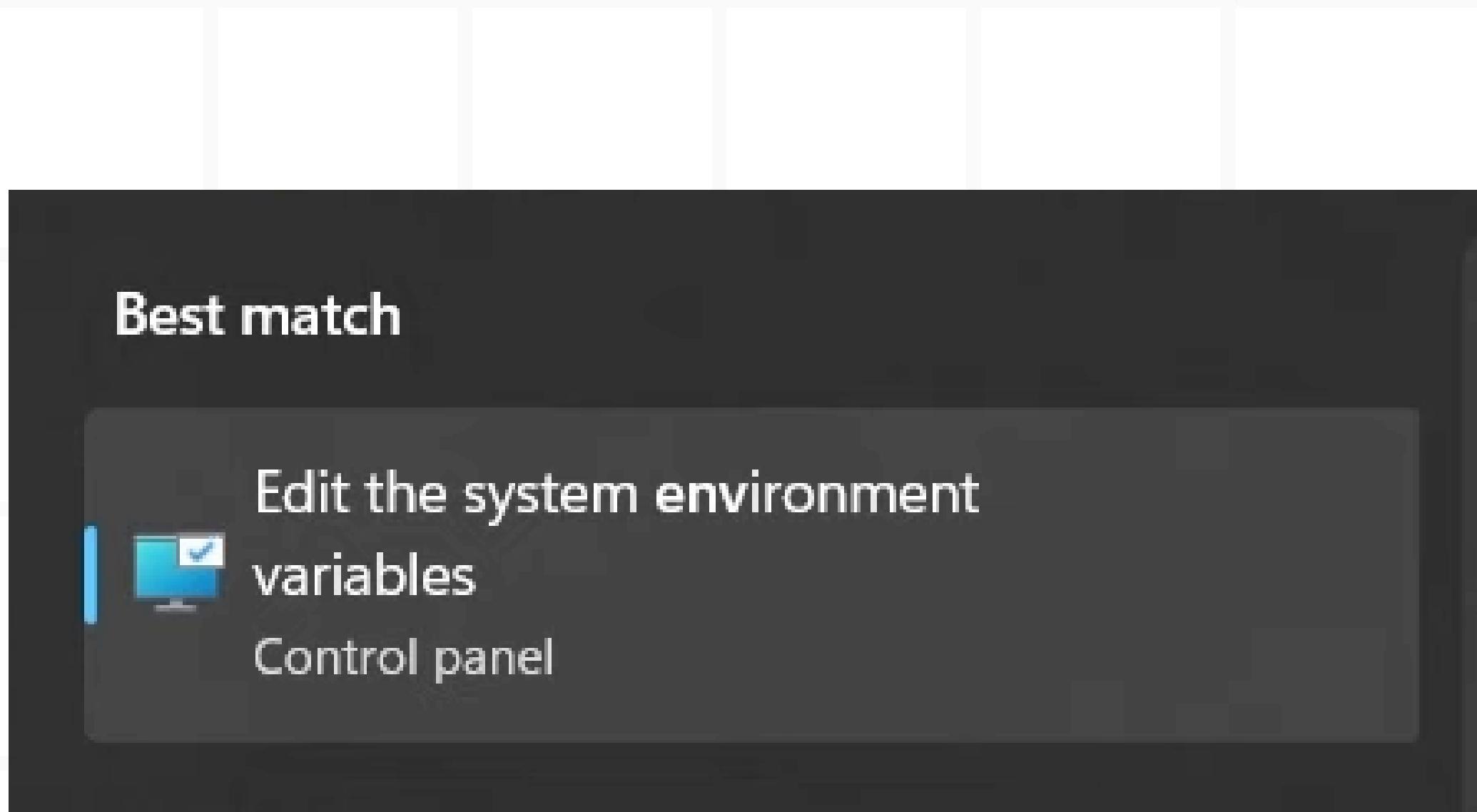


LANGKAH 3: TAMBAHKAN FLUTTER KE PATH





LANGKAH 3: TAMBAHKAN FLUTTER KE PATH





LANGKAH 3: TAMBAHKAN FLUTTER KE PATH

User variables for legen

Variable	Value
OneDrive	C:\Users\legen\OneDrive
Path	C:\Users\legen\AppData\Local\Microsoft\WindowsApps;C:\U...
TEMP	C:\Users\legen\AppData\Local\Temp
TMP	C:\Users\legen\AppData\Local\Temp

New... Edit... Delete

Environment Variables

Edit environment variable

User	Value
Path	%USERPROFILE%\AppData\Local\Microsoft\WindowsApps C:\Users\legen\AppData\Local\Programs\Microsoft VS Code\bin C:\flutter\src\flutter\bin

New Edit Browse... Delete Move Up Move Down Edit text... OK Cancel



LANGKAH 3: TAMBAHKAN FLUTTER KE PATH

```
Command Prompt - flutter doctor + ▾
Microsoft Windows [Version 10.0.22621.3737]
(c) Microsoft Corporation. All rights reserved.

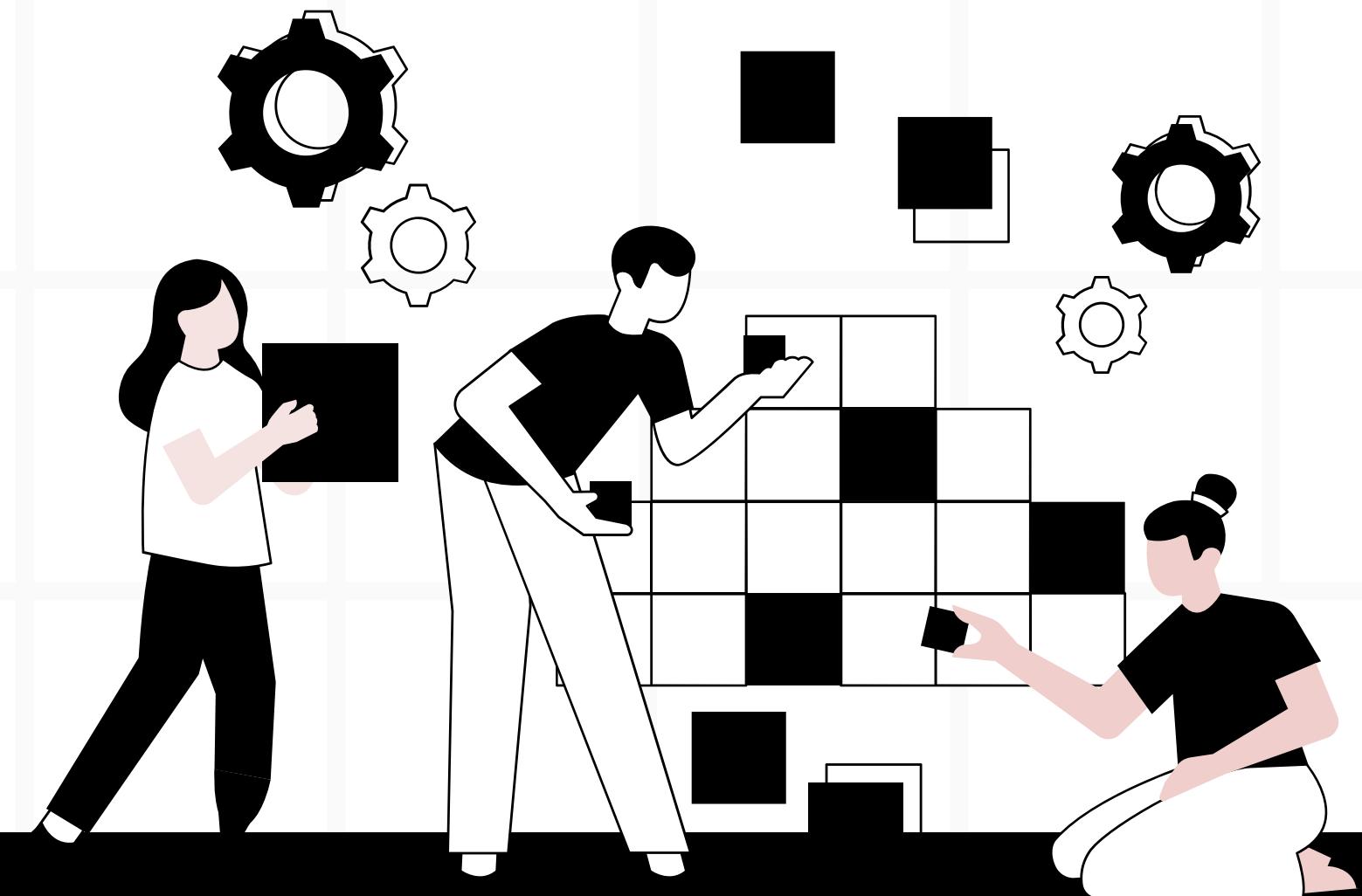
C:\Users\legen>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.22.2, on Microsoft Windows [Version 10.0.22621.3737], locale en-US)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[✗] Android toolchain - develop for Android devices
    ✗ Unable to locate Android SDK.
        Install Android Studio from: https://developer.android.com/studio/index.html
        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 1.90.0)
[✓] Connected device (3 available)
[✓] Network resources

! Doctor found issues in 3 categories.
```

LANGKAH 4: INSTAL EDITOR

- Android Studio: Integrasi penuh, dukungan emulator
- Visual Studio Code: Ringan, dukungan plugin Flutter





LANGKAH 4: INSTAL EDITOR

Developers Essentials ▾ Design & Plan ▾ **Develop ▾** Google Play Community

ANDROID STUDIO

Download Android Studio editor Gemini in Android Studio Android Gradle Plugin SDK tools

Android Studio

The official IDE for Android app development now accelerates your productivity with Gemini in Android Studio, your AI-powered coding companion.

[Download Android Studio Ladybug Feature Drop](#)

[Read release notes](#)

Developers

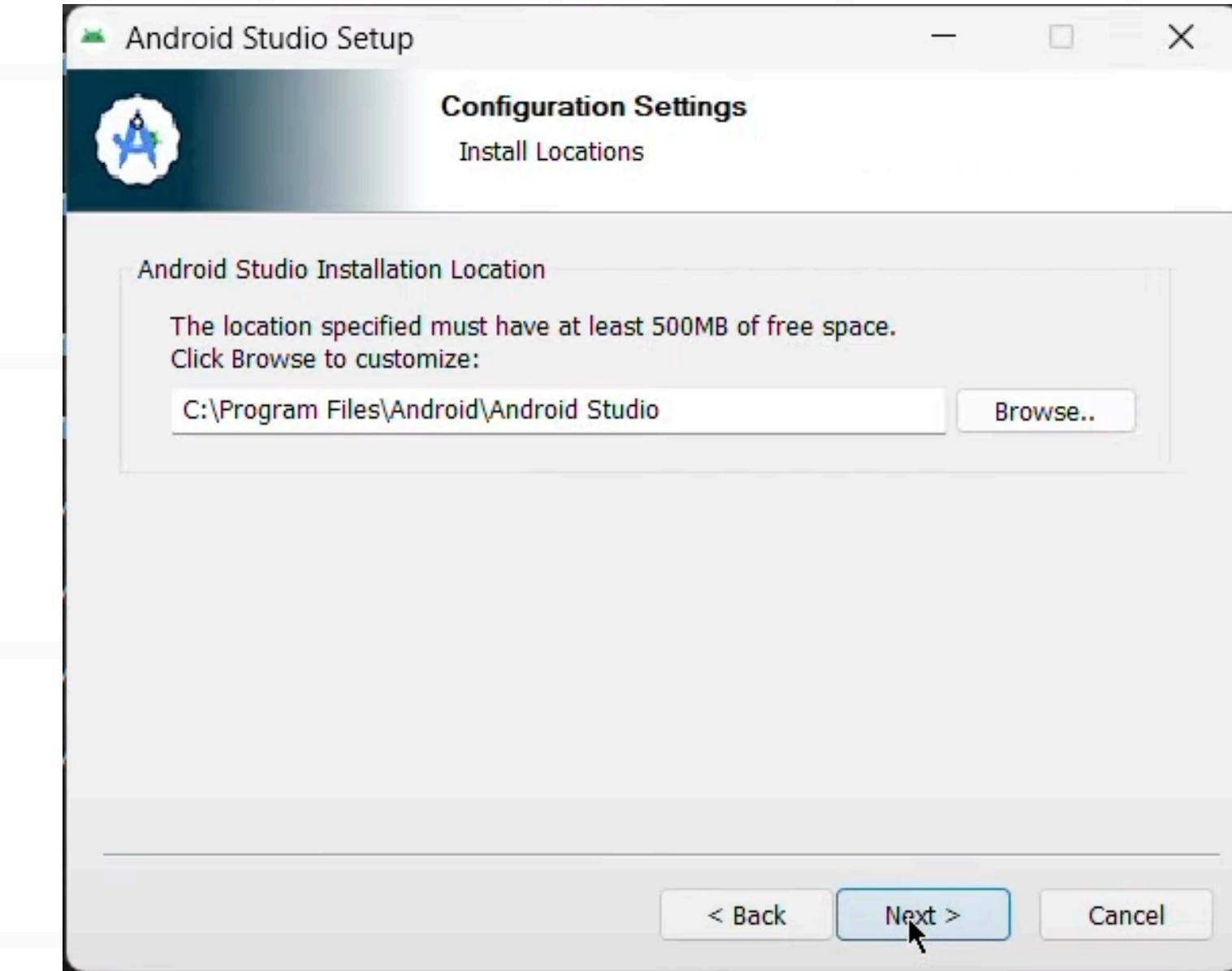
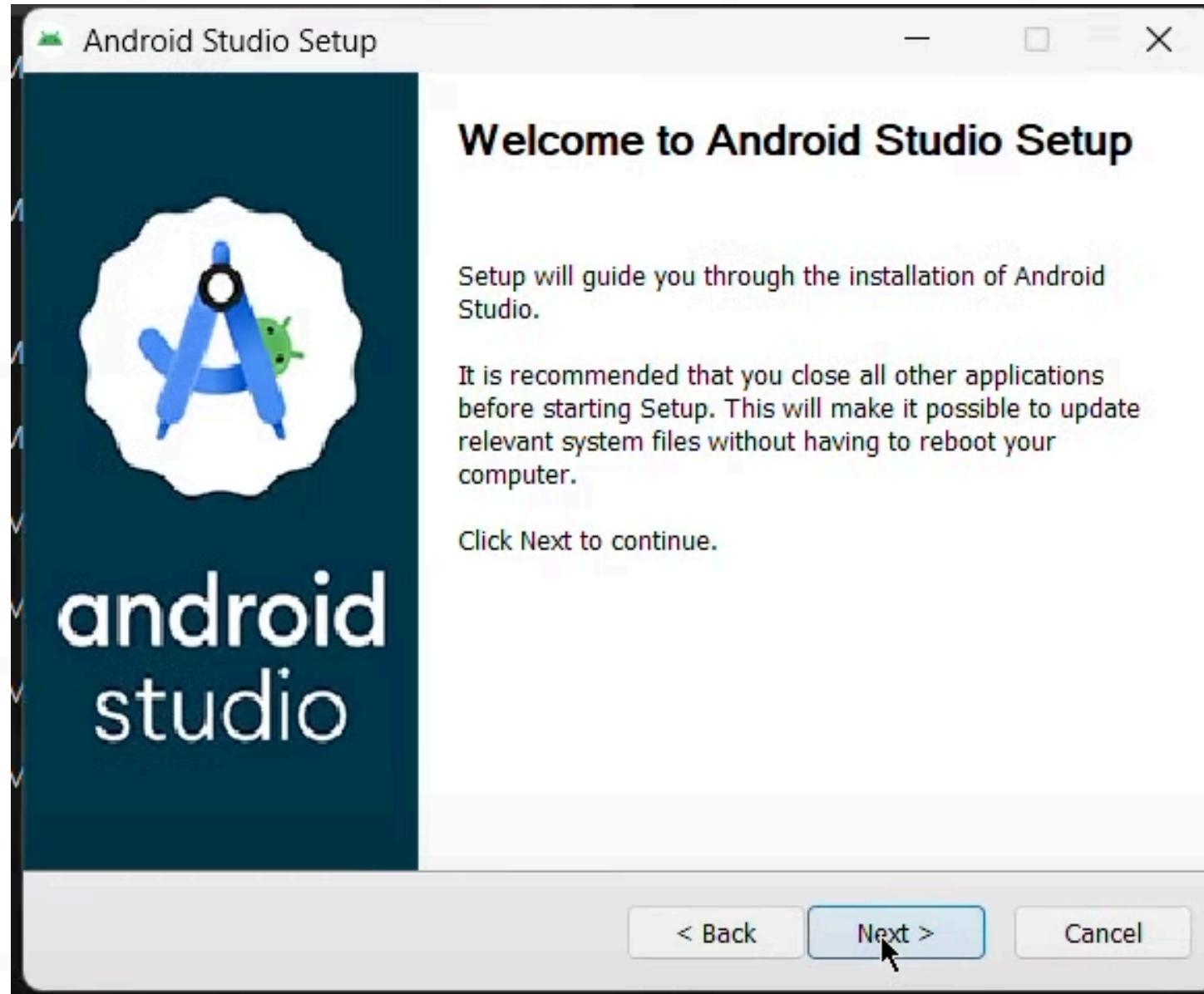
Download Android Studio & App Tools

Android Studio provides app builders with an integrated development environment (IDE) optimized for Android apps. Download Android Studio today.

Android Developers

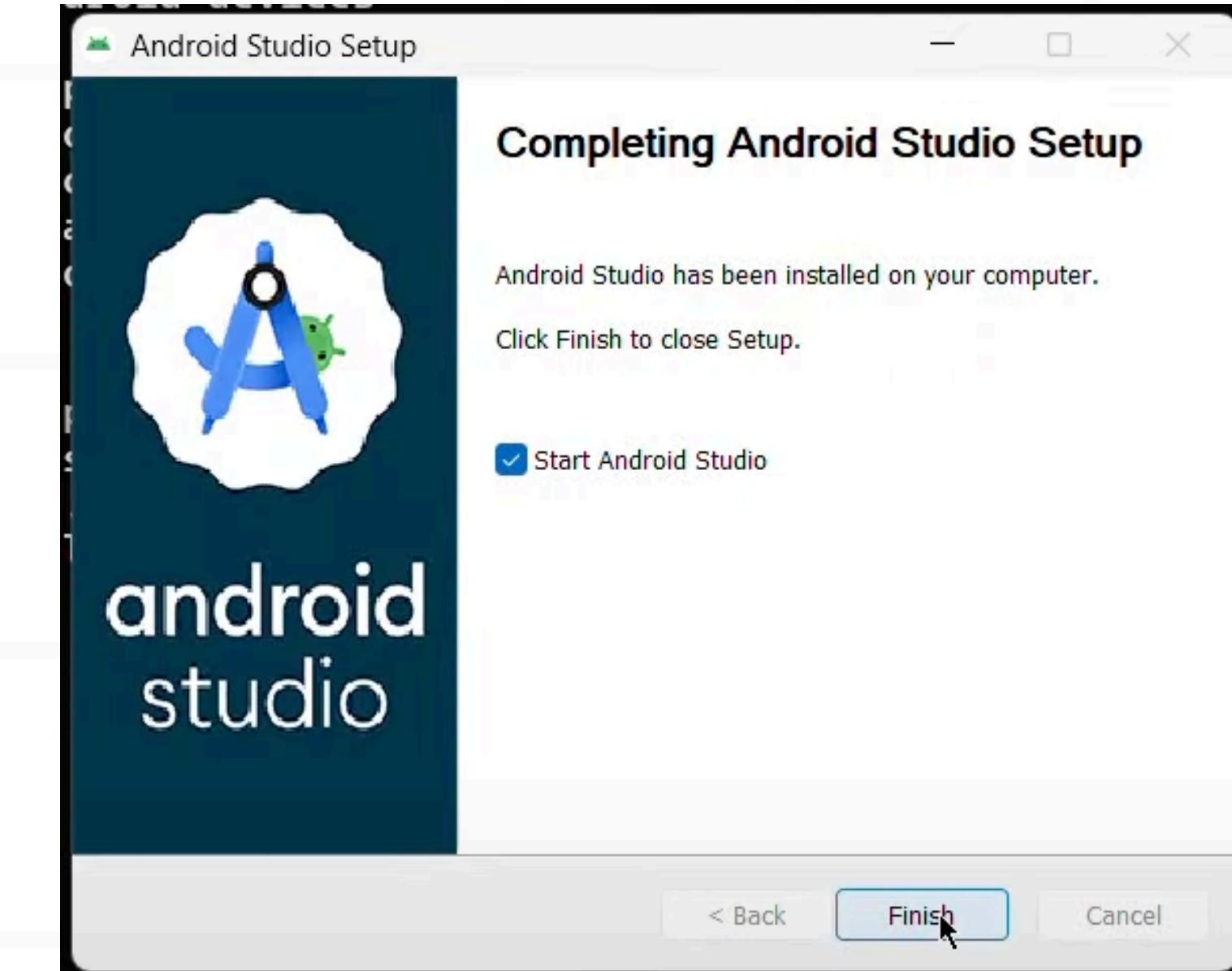
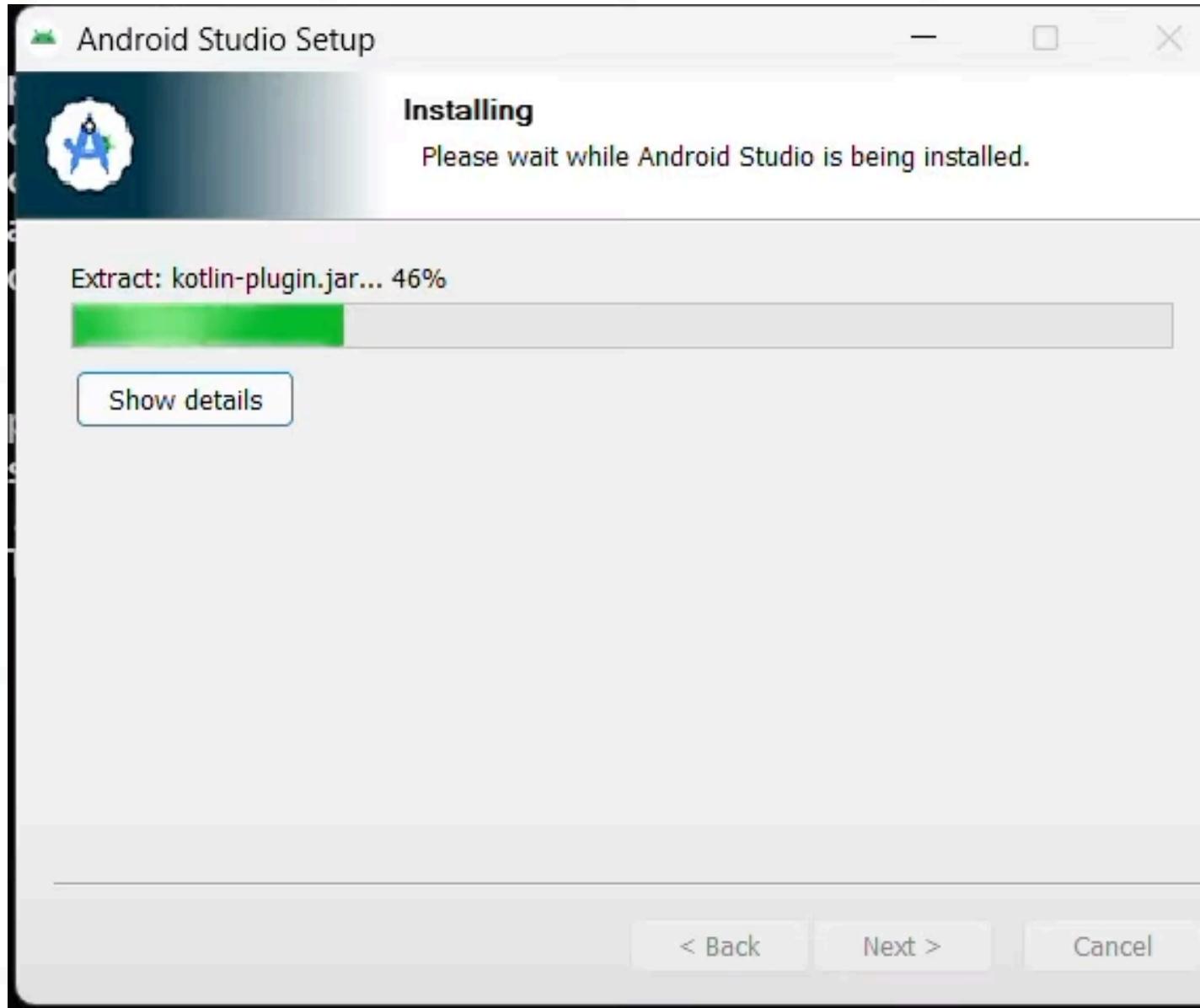


LANGKAH 4: INSTAL EDITOR (ANDROID STUDIO)



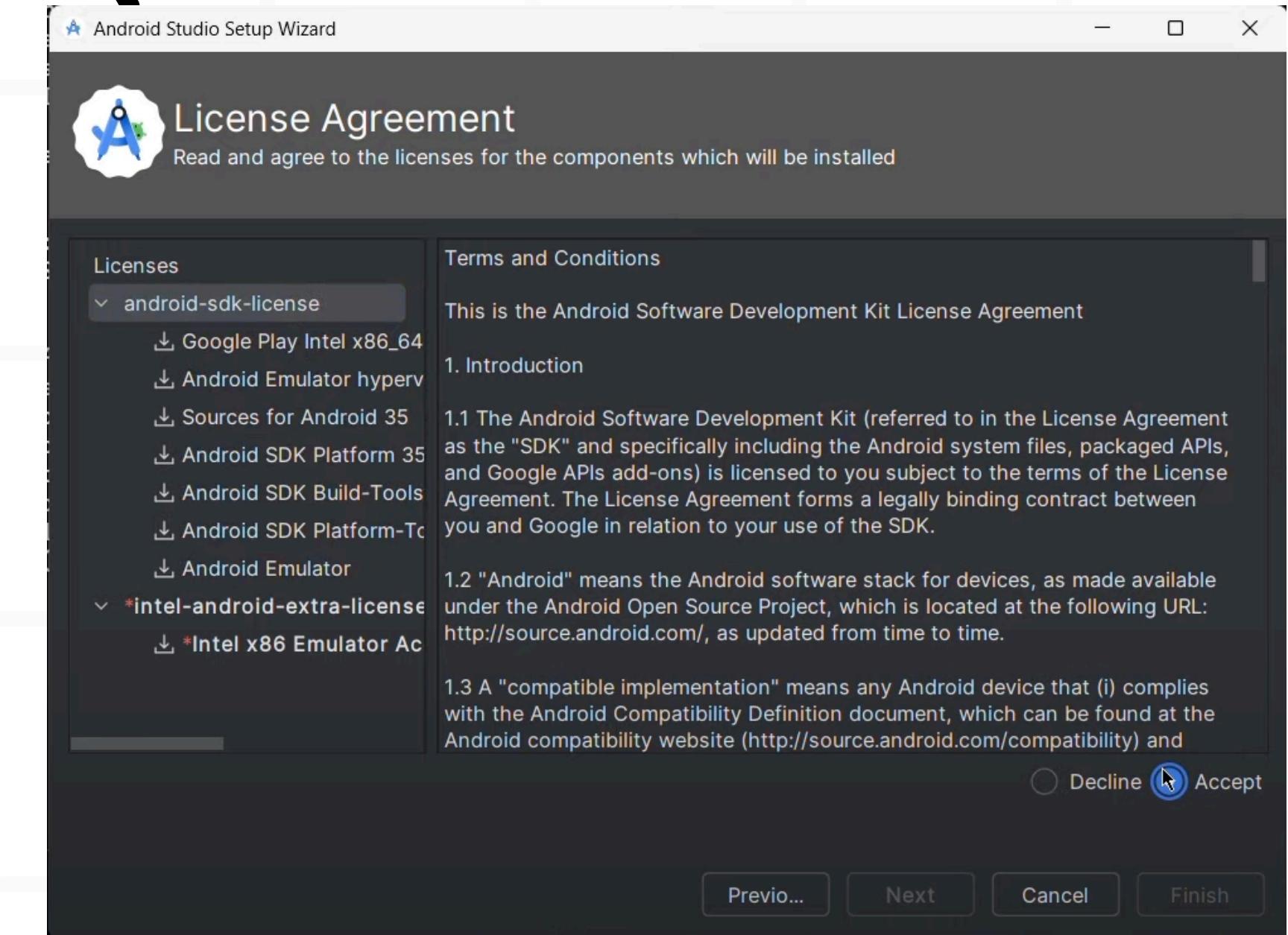
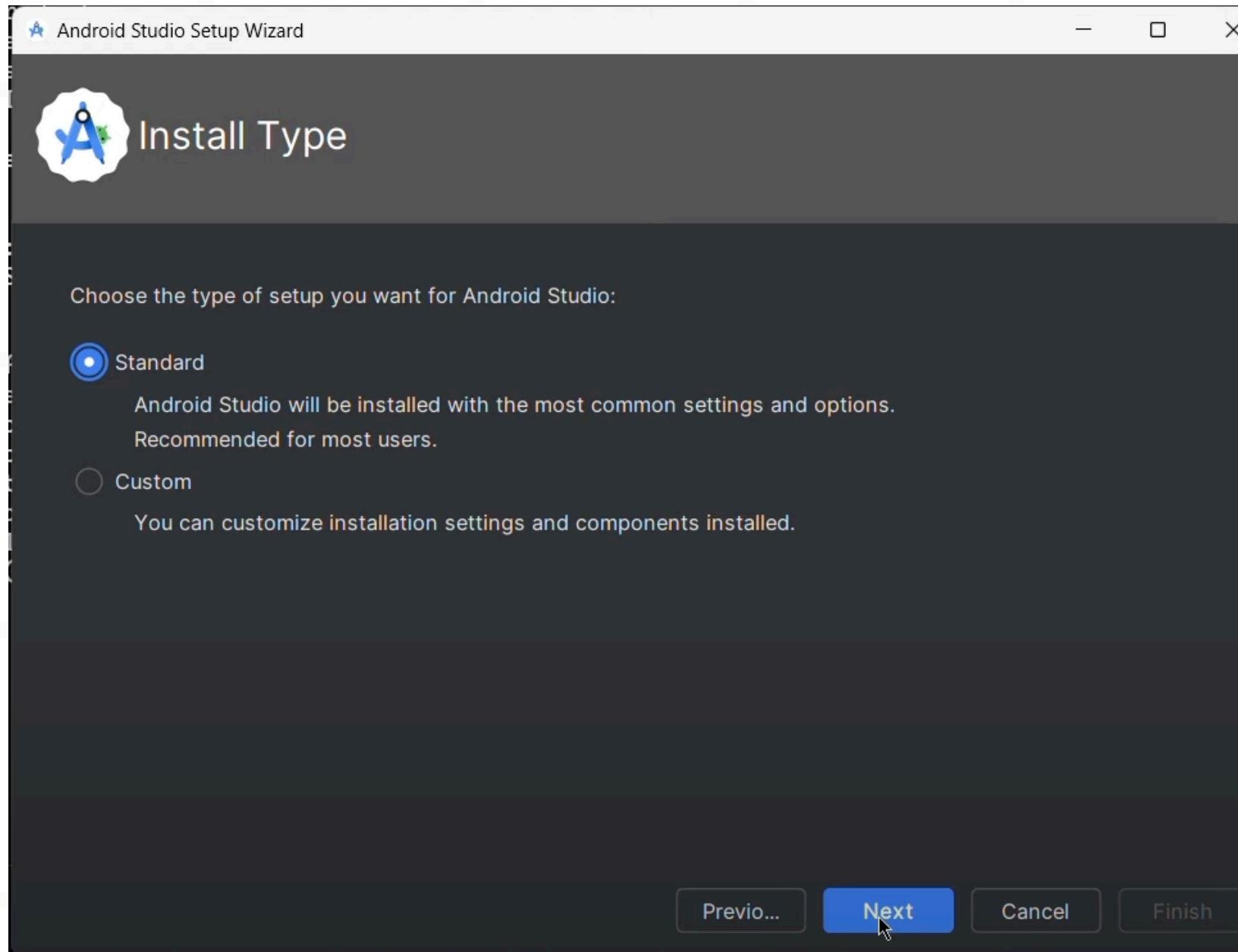


LANGKAH 4: INSTAL EDITOR (ANDROID STUDIO)





LANGKAH 4: INSTAL EDITOR (ANDROID STUDIO)

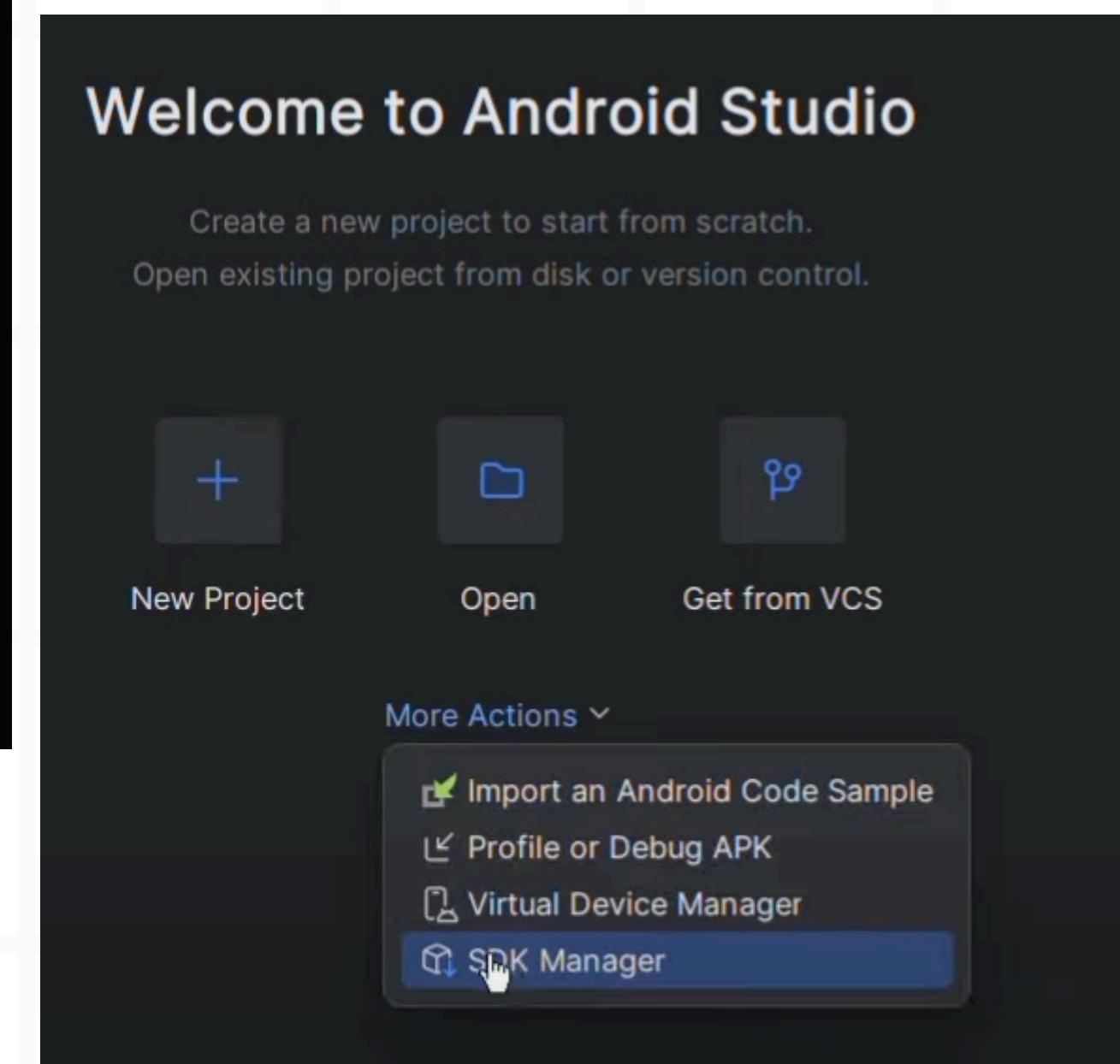




LANGKAH 4: INSTAL EDITOR (ANDROID STUDIO)

```
C:\Users\legen>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.22.2, on Microsoft Windows [Version 10.0.22621.3737], locale en-US)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[!] Android toolchain - develop for Android devices (Android SDK version 35.0.0)
  X cmdline-tools component is missing
    Run 'path/to/sdkmanager --install "cmdline-tools;latest"'
    See https://developer.android.com/studio/command-line for more details.
  X Android license status unknown.
    Run 'flutter doctor --android-licenses' to accept the SDK licenses.
    See https://flutter.dev/docs/get-started/install/windows#android-setup for more details.
[✓] 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 2024.1)
[✓] VS Code (version 1.90.0)
[✓] Connected device (3 available)
[✓] Network resources

! Doctor found issues in 2 categories.
```





LANGKAH 4: INSTAL EDITOR (ANDROID STUDIO)

SDK Platforms SDK Tools SDK Update Sites

Below are the available SDK developer tools. Once installed, the IDE will automatically check for updates. Check "show package details" to display available versions of an SDK Tool.

Name	Version	Status
Android SDK Build-Tools 35		Installed
NDK (Side by side)		Not Installed
Android SDK Command-line Tools (latest)		Not Installed
CMake		Not Installed
Android Auto API Simulators	1	Not installed
Android Auto Desktop Head Unit Emulator	2.0	Not installed
Android Emulator	34.2.15	Installed
Android Emulator hypervisor driver (installer)	2.2.0	Installed
Android SDK Platform-Tools	35.0.1	Installed
Google Play APK Expansion library	1	Not installed
Google Play Instant Development SDK	1.9.0	Not installed
Google Play Licensing Library	1	Not installed
Google Play services	49	Not installed
Google USB Driver	13	Not installed
Google Web Driver	2	Not installed

Hide Obsolete Packages Show Package Details

OK Cancel Apply

```
C:\Users\legen>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.22.2, on Microsoft Windows [Version 10.0.22621.3737], locale en-US)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[!] Android toolchain - develop for Android devices (Android SDK version 35.0.0)
  ! Some Android licenses not accepted. To resolve this, run: flutter doctor --android-licenses
[✓] 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 (version 2024.1)
[✓] VS Code (version 1.90.0)
[✓] Connected device (3 available)
[✓] Network resources

! Doctor found issues in 2 categories.

[!] Android toolchain - develop for Android devices (Android SDK version 35.0.0)
  ! Some Android licenses not accepted. To resolve this, run: flutter doctor --android-licenses
[✗] Chrome - develop for the web
```



LANGKAH 4: INSTAL EDITOR (ANDROID STUDIO)

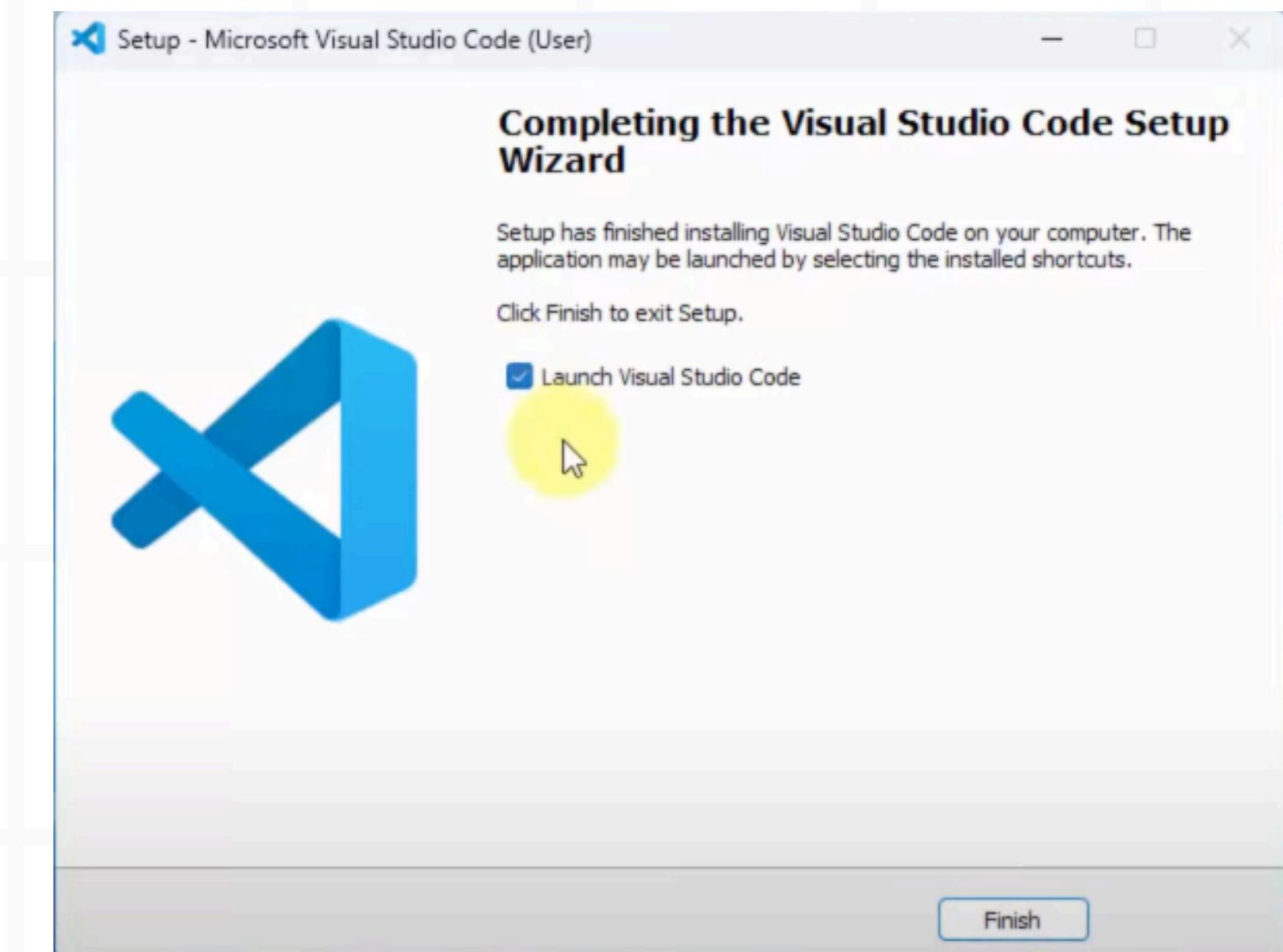
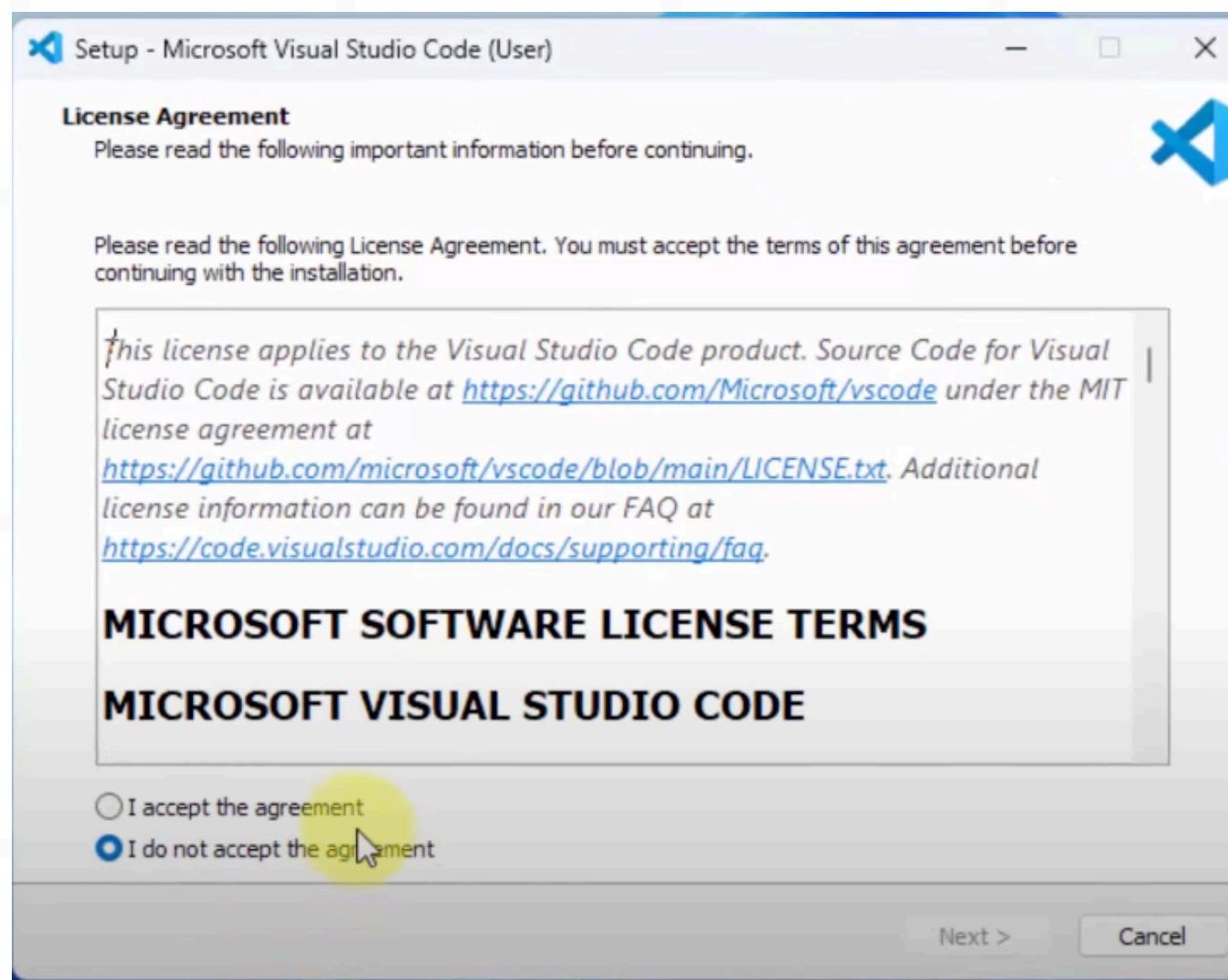
```
C:\Users\legen>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.22.2, on Microsoft Windows [Version 10.0.22621.3737], locale en-US)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[✓] Android toolchain - develop for Android devices (Android SDK version 35.0.0)
[✓] 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 (version 2024.1)
[✓] VS Code (version 1.90.0)
[✓] Connected device (3 available)
[✓] Network resources

! Doctor found issues in 1 category.
```



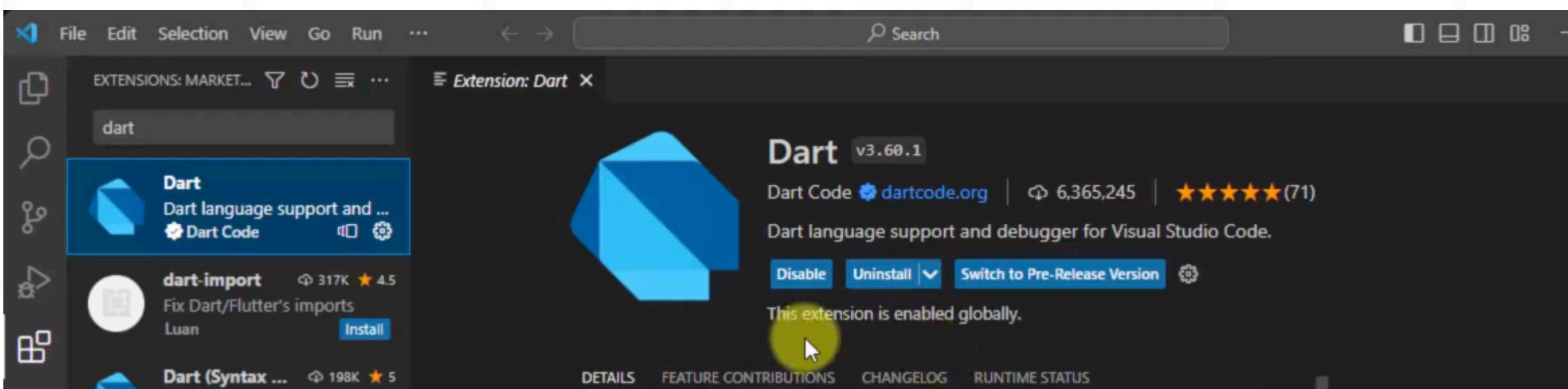
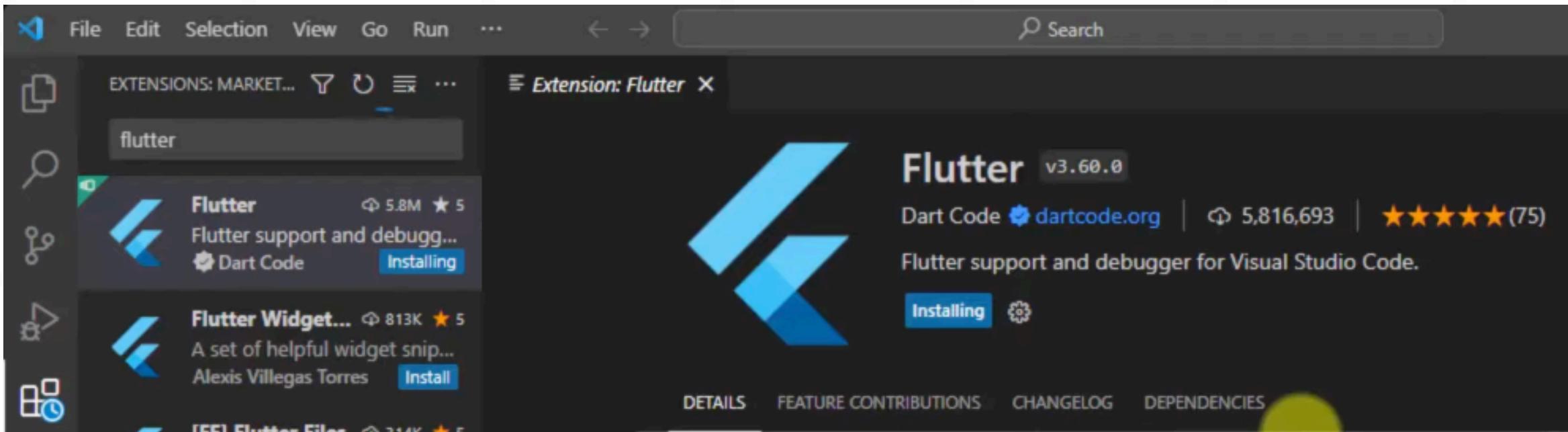
LANGKAH 5: INSTAL EDITOR (VS CODE)

<https://code.visualstudio.com>



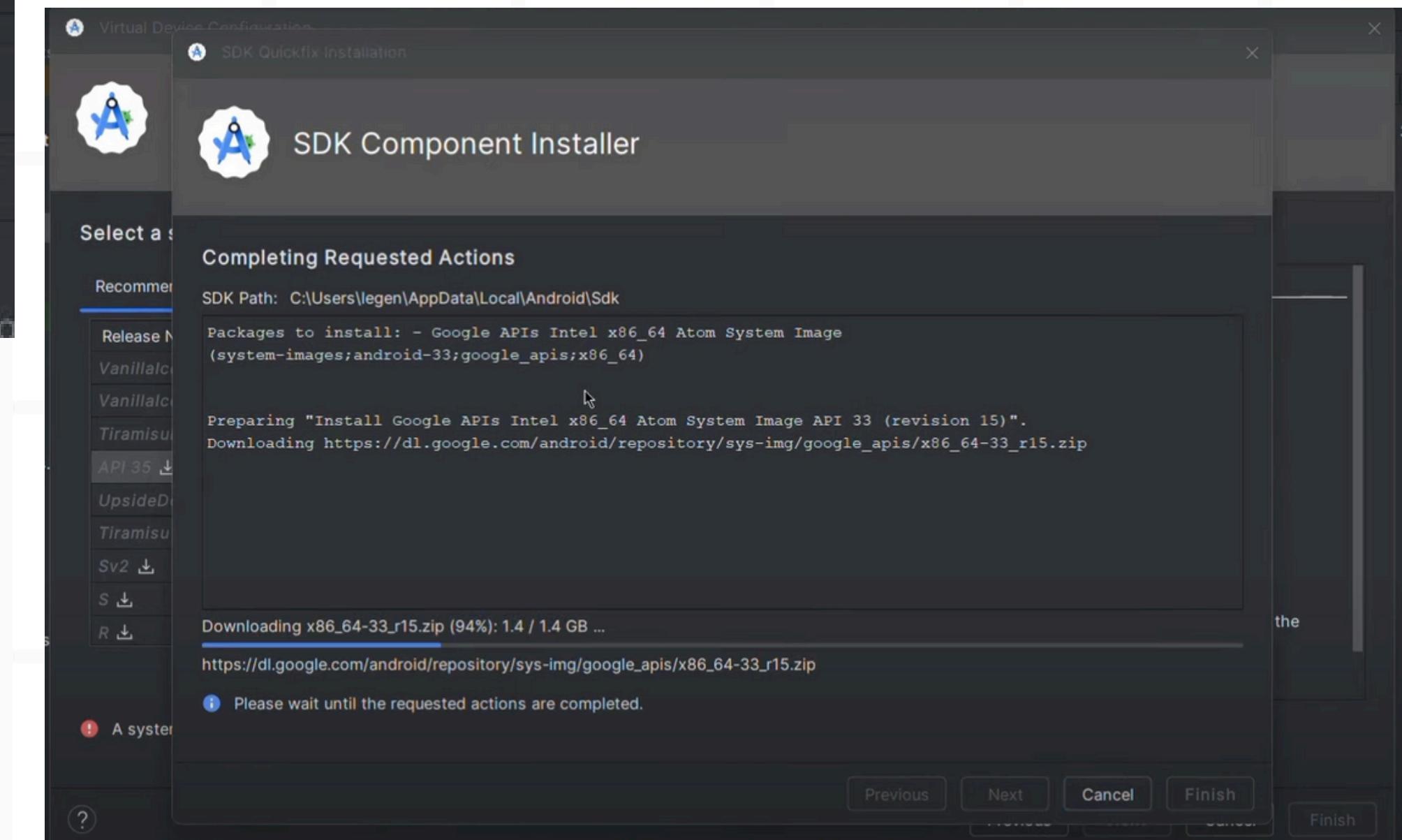
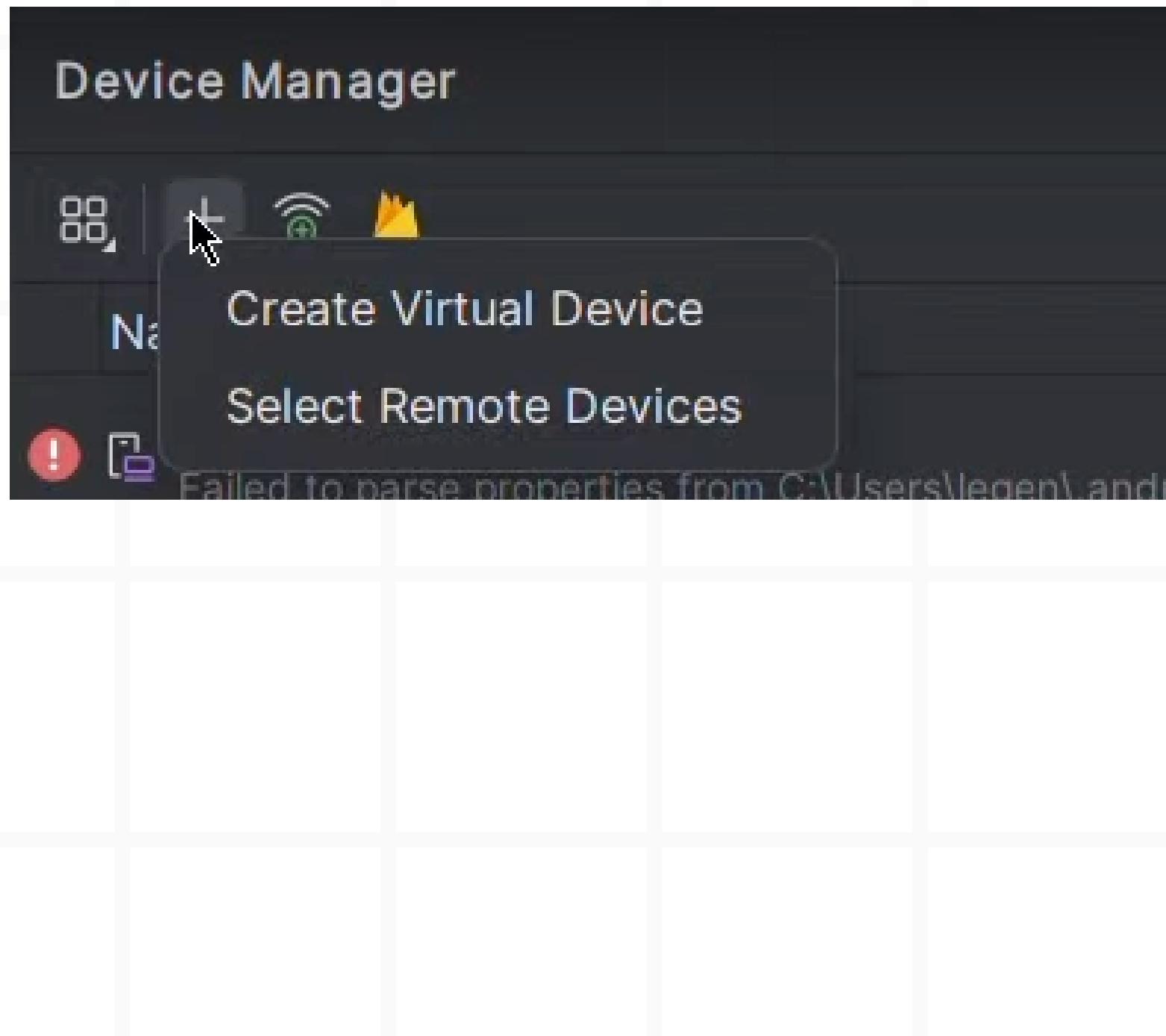


LANGKAH 5: INSTAL EDITOR (VS CODE)





LANGKAH 6: INSTAL EMULATOR



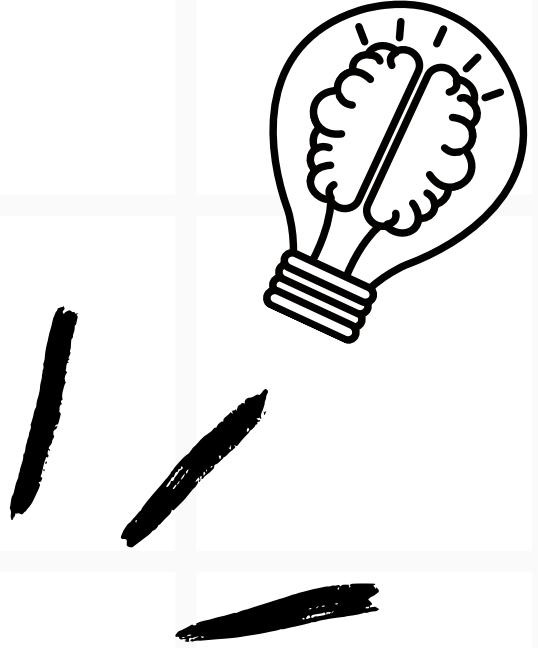
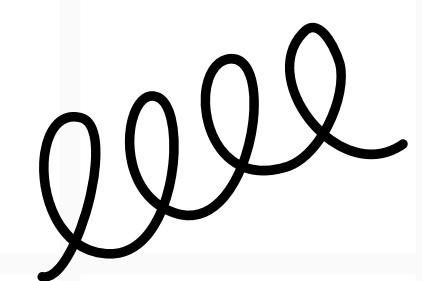
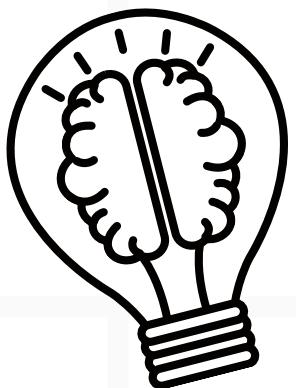


LANGKAH 6: INSTAL EMULATOR





PENUTUP





KESIMPULAN

Memahami proses instalasi Flutter adalah langkah penting untuk memulai perjalanan sebagai pengembang aplikasi dan memperluas jaringan profesional. Dengan Flutter, kita dapat mengembangkan aplikasi lintas platform secara efisien. Dengan ini, kita memiliki fondasi kuat untuk berkarya lebih jauh dalam dunia pengembangan teknologi.

TERIMA KASIH

