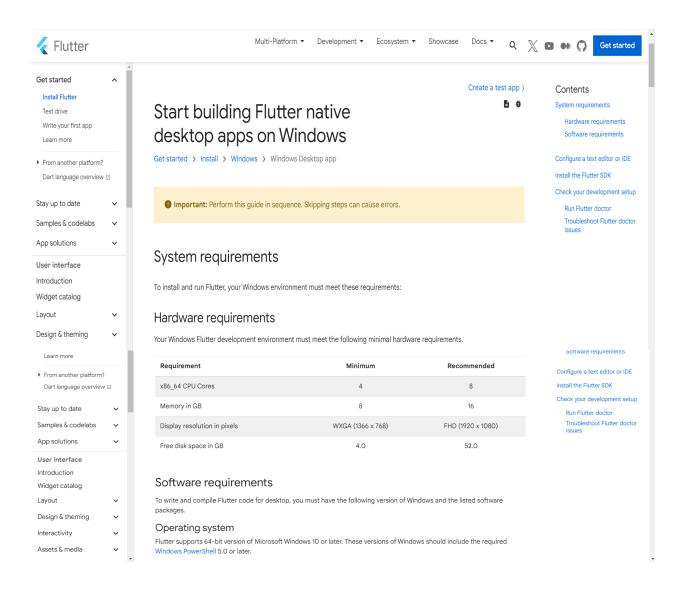
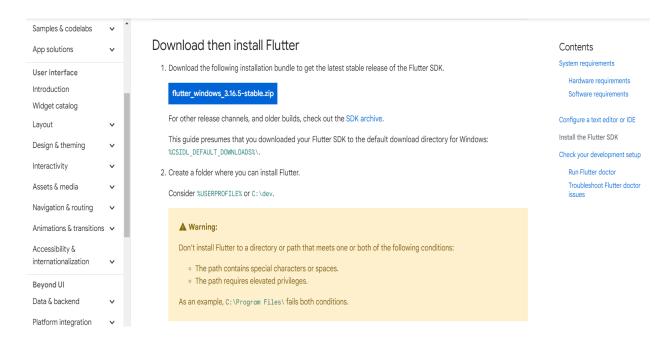
LAB 1: INSTALLATION OF FLUTTER, ANDROID STUDIO, VISUAL STUDIO CODE AND VISUAL STUDIO 2022

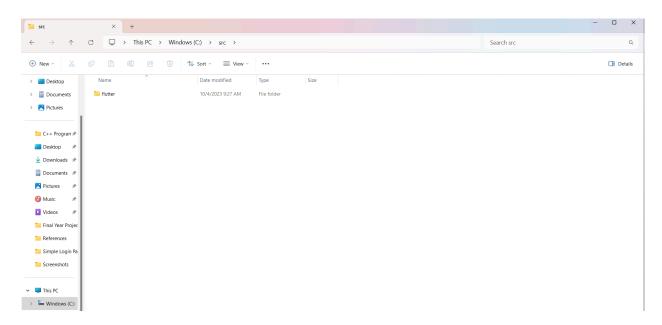
Step 1: Install Flutter at website URL https://docs.flutter.dev/get-started/install/windows/desktop



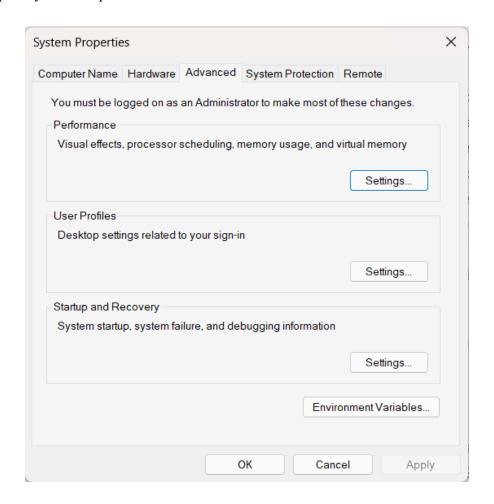
Step 2: Install Flutter SDK. Click the blue button.



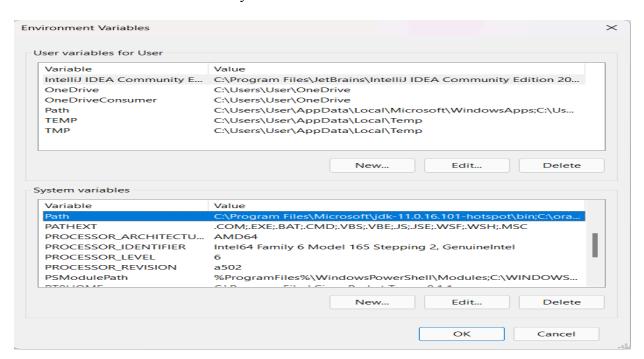
Step 3: After the installation is complete, create a new "src" folder in C: drive and place the Flutter SDK into the folder.



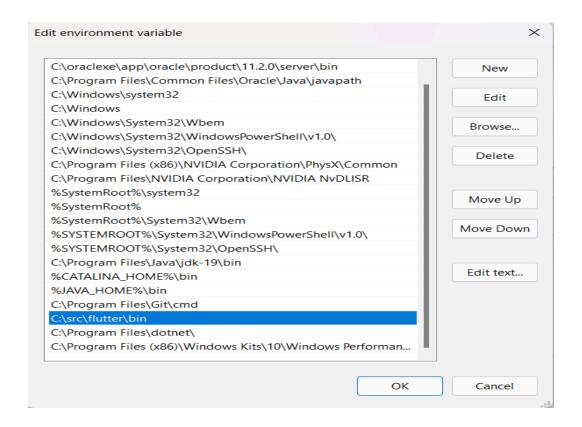
Step 4: Open System Properties and click the Environment Variables button



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



Press the "New" button. Copy and paste path to flutter\bin



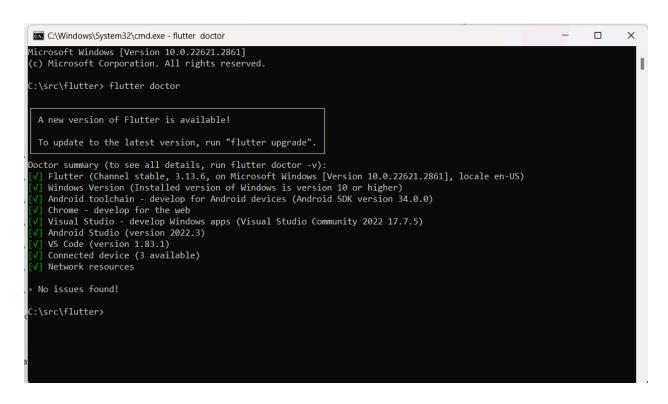
Step 5: Open CMD and write a command "flutter"

```
Select Command Prompt - flutter
                                                                                                                          ×
 :\Users\User>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.
                              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.)
v, --verbose
                              Target device id or name (prefixes allowed).
-d, --device-id
    --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
    --enable-telemetry
                              Enable telemetry reporting each time a flutter or dart command runs.
Available commands:
-lutter SDK
                    Output command line shell completion setup scripts.
 bash-completion
 channel
                     List or switch Flutter channels.
                     Configure Flutter settings.
 config
                     Show information about the installed tooling.

Downgrade Flutter to the last active version for the current channel.
 doctor
 downgrade
                     Populate the Flutter tool's cache of binary artifacts.
 precache
 upgrade
                     Upgrade your copy of Flutter.
roject
 analyze
                     Analyze the project's Dart code.
                     Assemble and build Flutter resources.
 assemble
 build.
                     Build an executable app or install bundle.
 clean
                     Delete the build/ and .dart_tool/ directories.
                     Create a new Flutter project.
 create
                     Run integration tests for the project on an attached device or emulator.
 drive
 gen-l10n
                     Generate localizations for the current project.
 pub
                     Commands for managing Flutter packages
                     Run your Flutter app on an attached device.
                     Run Flutter unit tests for the current project.
 test
ools & 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.
                     Show log output for running Flutter apps.
 logs
 screenshot
                     Take a screenshot from a connected device.
 symbolize
                     Symbolize a stack trace from an AOT-compiled Flutter app.
```

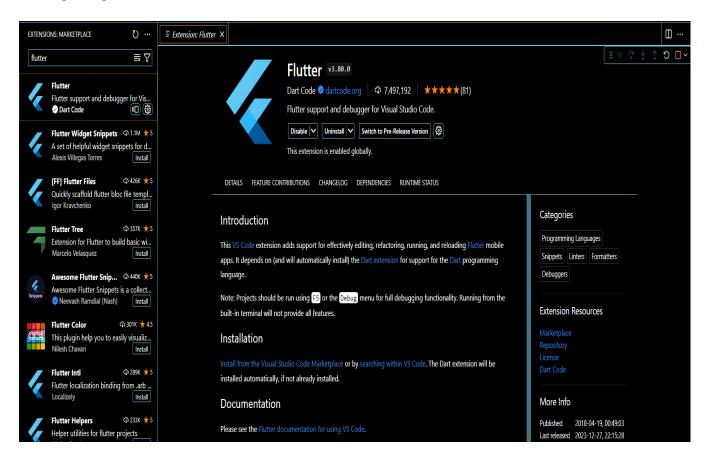
Step 6: Write command "flutter doctor" to validate all components of a complete Flutter development environment for Windows.



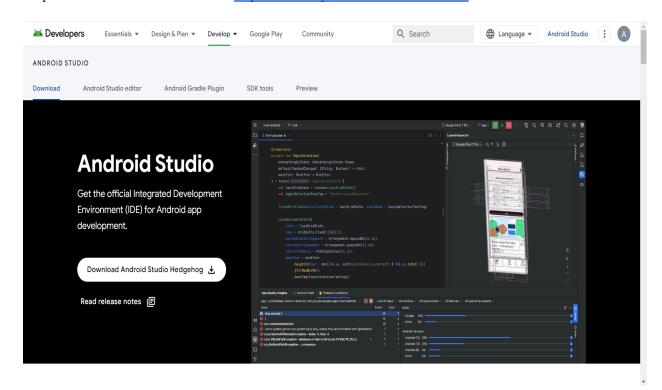
Step 7: Install Visual Studio Code at website https://code.visualstudio.com/download



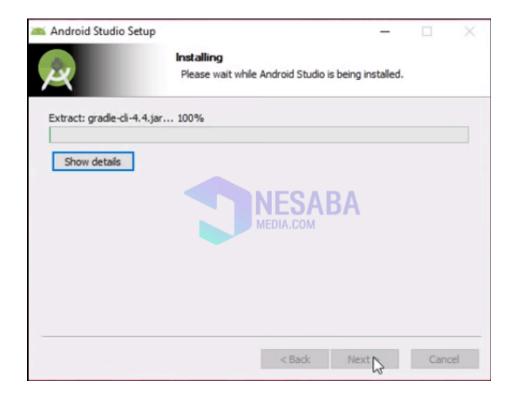
Step 8: Open the Visual Studio Code, and install Flutter extension



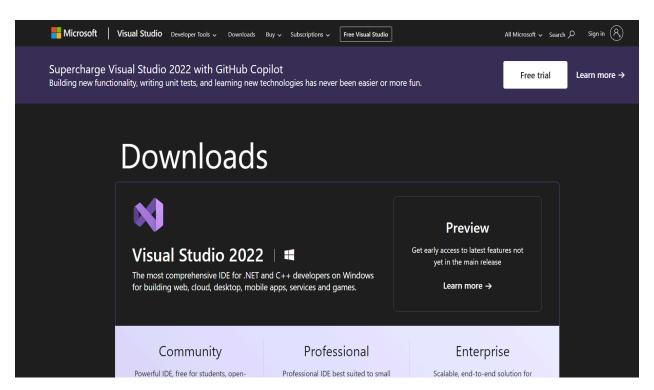
Step 9: Install Android Studio at https://developer.android.com/studio



Step 10: Set Up an Android Studio



Step 11: Go to website https://visualstudio.microsoft.com/downloads/ to install Visual Studio Code 2022.



Step 12: Open command prompt and type "flutter doctor" once the Flutter is complete.

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

Doctor summary (to see all details, run flutter doctor -v):

[v] Flutter (Channel stable, 3.16.5, on Microsoft Windows [Version 10.0.22621.2861], locale en-US)

[v] Windows Version (Installed version of Windows is version 10 or higher)

[v] Android toolchain - develop for Android devices (Android SDK version 34.0.0)

[v] Chrome - develop for the web

[v] Visual Studio - develop Windows apps (Visual Studio Community 2022 17.7.5)

[v] Android Studio (version 2022.3)

[v] VS Code (version 1.85.1)

[v] Connected device (3 available)

[v] Network resources
```