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Aim: To write a Hello World Program on Flutter

Pre Requisites: Android Studio Hedgehog, Visual Studio Code and Flutter package. I highly recommend watching this video, for Setting up your Flutter Environment and your Virtual Device: <https://youtu.be/ZSWfgxrxN0M?feature=shared>

INSTALLATION :

The image shows two screenshots of the Flutter documentation website. The top screenshot displays the 'Choose your development platform to get started' page, which offers options for Windows, macOS, Linux, and ChromeOS. A sidebar on the left contains links for 'Get started', 'Test drive', 'Write your first app', and 'Learn more'. The bottom screenshot shows the 'Install the Flutter SDK' page, which provides instructions on how to install the SDK using the VS Code Flutter extension or by downloading the Flutter bundle. It includes a link to 'flutter_windows_3.16.5-stable.zip' and a list of system requirements on the right side.

Flutter documentation page showing the installation process for Windows.

The page is titled "Choose your development platform to get started". It lists the following platforms: Windows, macOS, Linux, and ChromeOS.

Important: If you develop apps in China, check out [using Flutter in China](#).

The second screenshot shows the "Install the Flutter SDK" page. It provides instructions on how to install the Flutter SDK, including downloading the Flutter bundle and installing it.

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

[flutter_windows_3.16.5-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: %CSIDL_DEFAULT_DOWNLOADS%.

2. Create a folder where you can install Flutter.

Consider %USERPROFILE% or C:\dev.

Contents

- System requirements
 - Hardware requirements
 - Software requirements
- Configure a text editor or IDE
- Install the Flutter SDK
- Configure Android development
 - Configure the Android toolchain in Android Studio
 - Configure your target Android device
 - Agree to Android licenses
- Check your

docs.flutter.dev/get-started/install/windows/mobile?tab=download

Flutter Multi-Platform Development Ecosystem Showcase Docs

Get started

Install Flutter

Test drive

Write your first app

Learn more

From another platform?

Dart language overview

Stay up to date

Samples & codelabs

App solutions

User interface

Introduction

Widget catalog

Layout

Design & theming

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

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```
Administrator: Command Prompt - flutter
Microsoft Windows [Version 10.0.22000.2652]
(c) Microsoft Corporation. All rights reserved.

C:\Users\INF505-11>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.
--enable-analytics    Enable telemetry reporting each time a flutter or dart command runs.
--disable-analytics  Disable telemetry reporting each time a flutter or dart command runs, until it is
                        re-enabled.
--suppress-analytics Suppress analytics reporting for the current CLI invocation.

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.
```

```
C:\Users\INF505-11>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.16.5, on Microsoft Windows [Version 10.0.22000.2652], locale en-US)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[!] Android toolchain - develop for Android devices (Android SDK version 33.0.1)
    ! Some Android licenses not accepted. To resolve this, run: flutter doctor --android-licenses
[✓] Chrome - develop for the web
[X] 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 2021.3)
[✓] VS Code (version 1.76.0)
[✓] Connected device (3 available)
[✓] Network resources

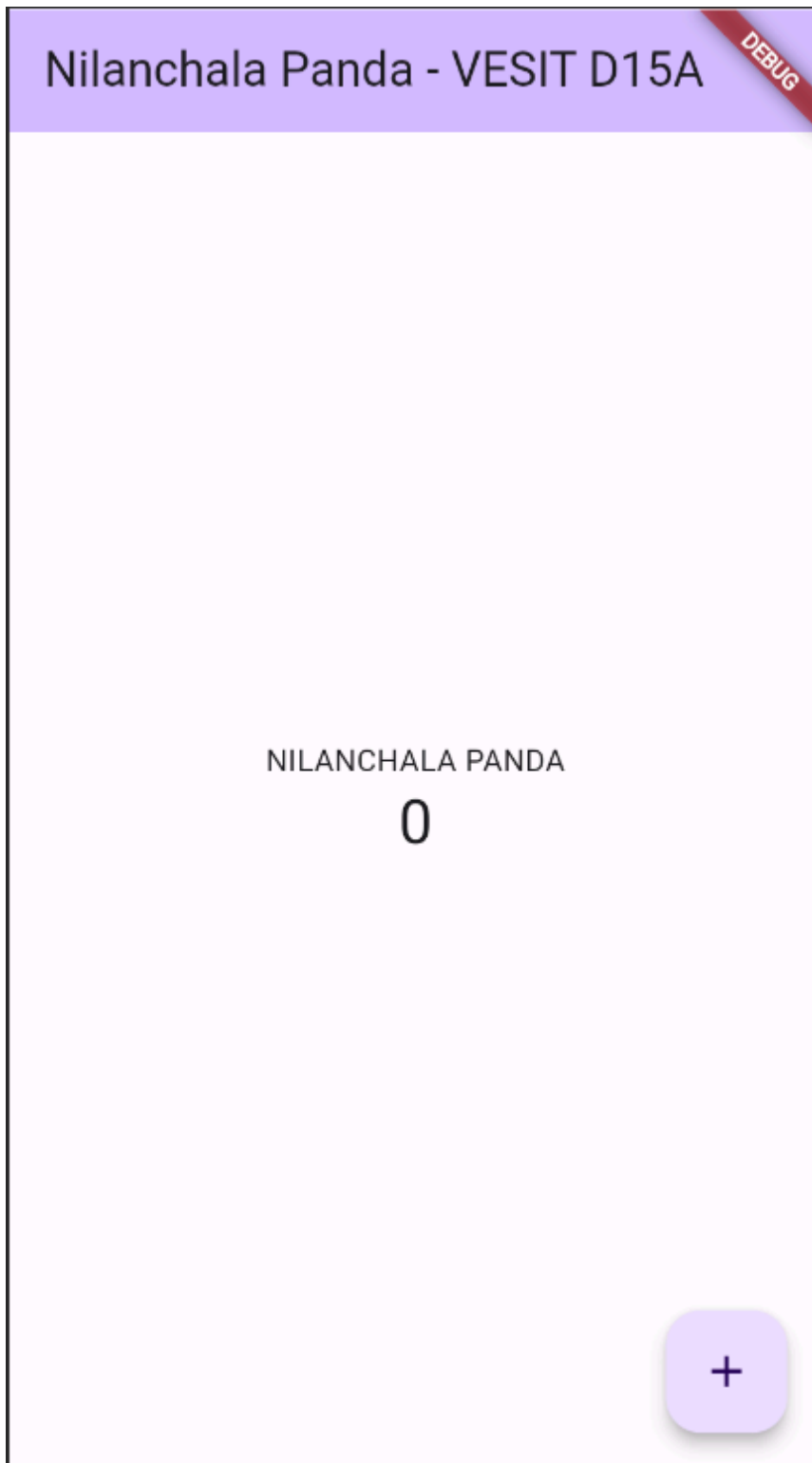
! Doctor found issues in 2 categories.

C:\Users\INF505-11>
```

Code:

```
void _incrementCounter() {
```

Output:



Conclusion: Hence We ran a simple program on running a simple text, on flutter, running on a virtual device