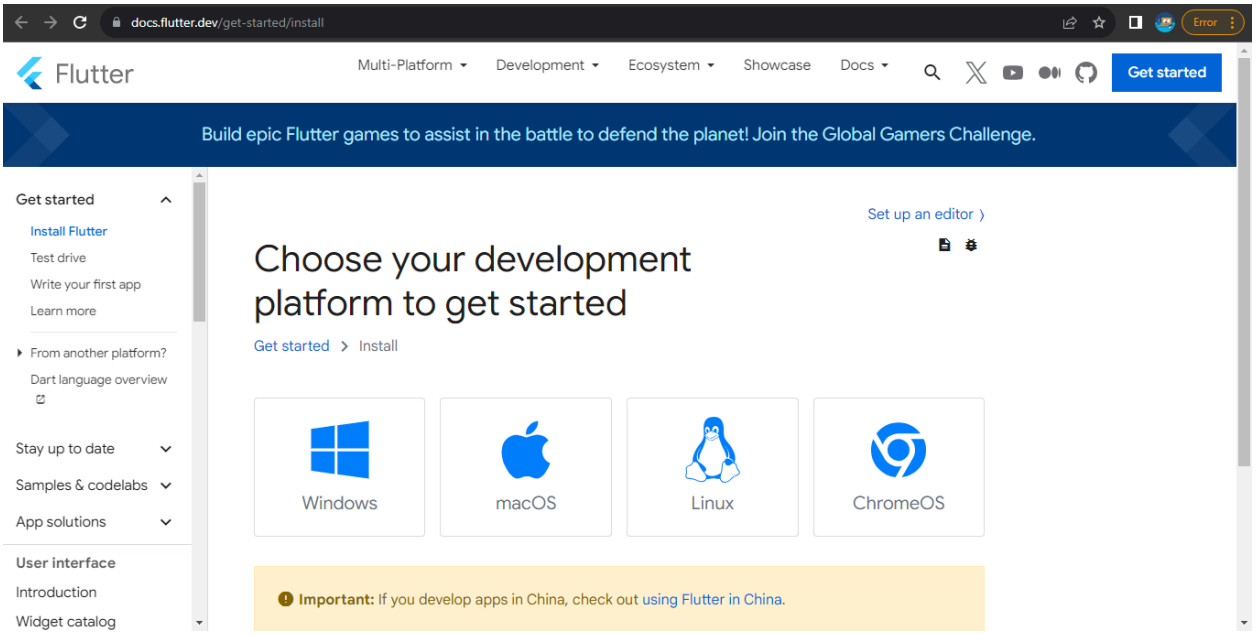
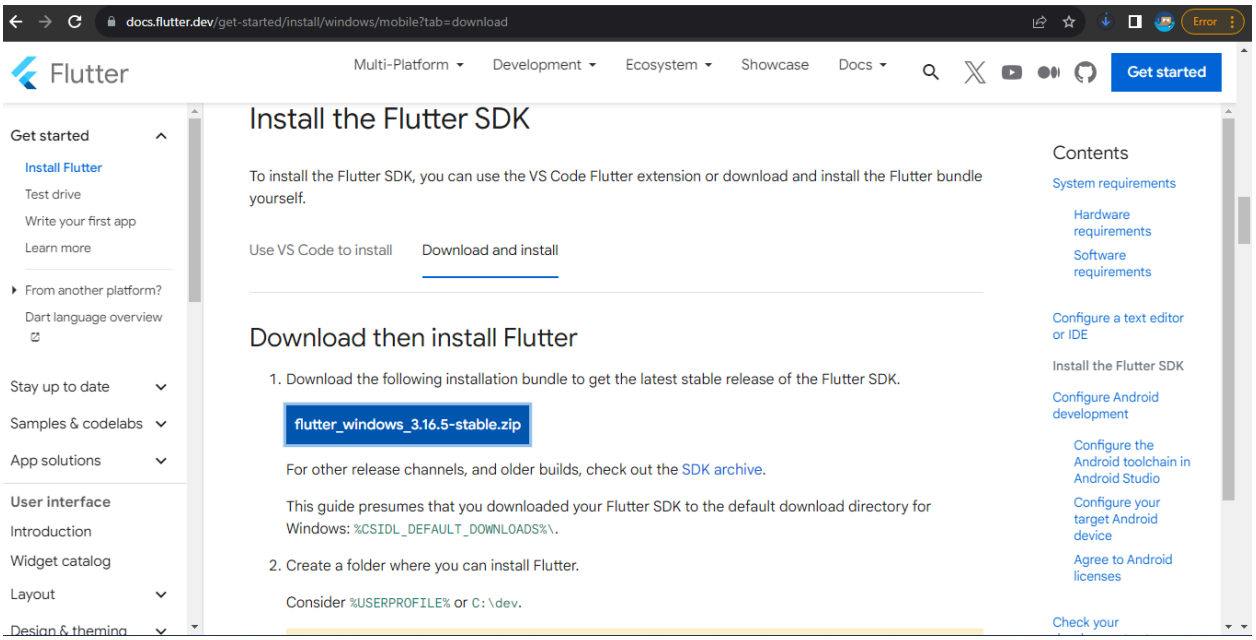
Name : Nilanchala Panda **Div : D15A**
Batch : B **Roll No : 41**

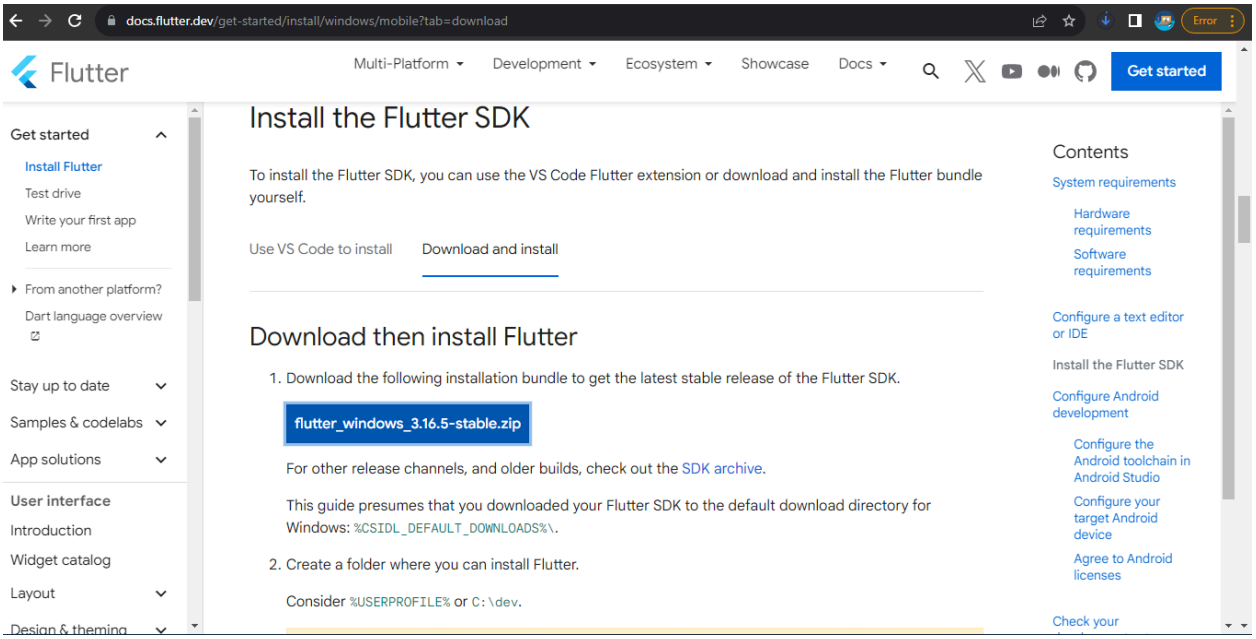
Aim: To write a Hello World Program on Flutter

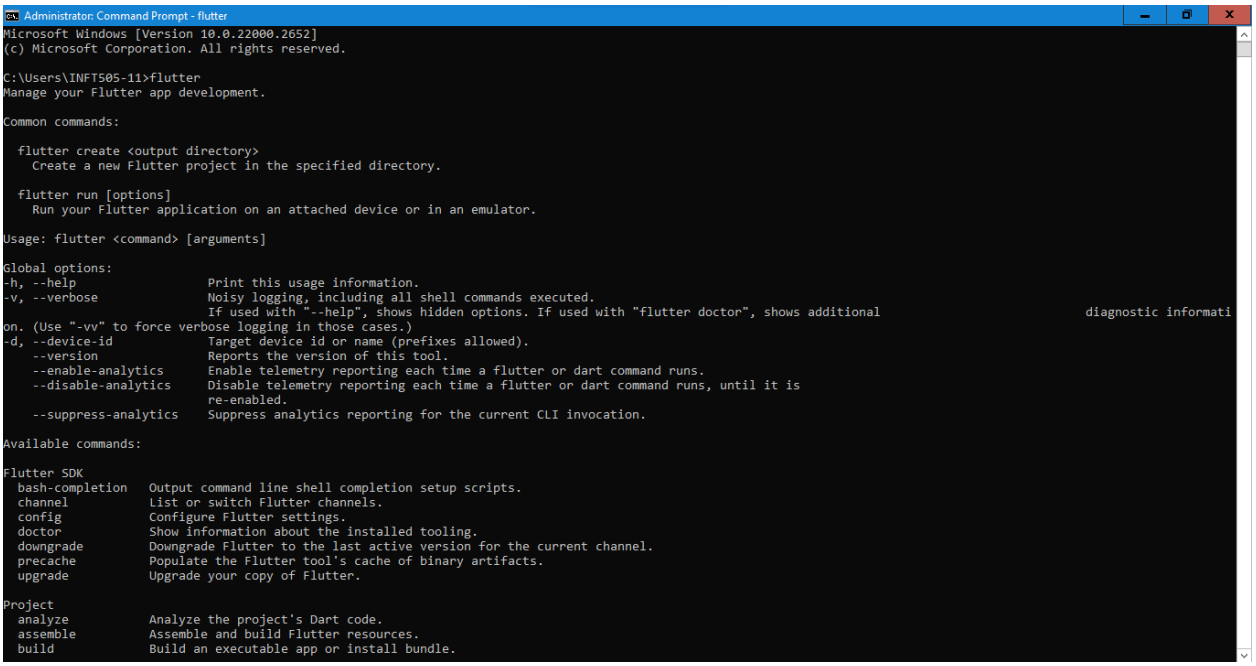
Pre Requisites: Android Studio Hedgehog, Visual Studio Code and Flutter package.I highly recommend watching this video, for Setting up your Flutter Environment and your Virtual Device: https://youtu.be/ZSWfgxrxN0M?feature=shared

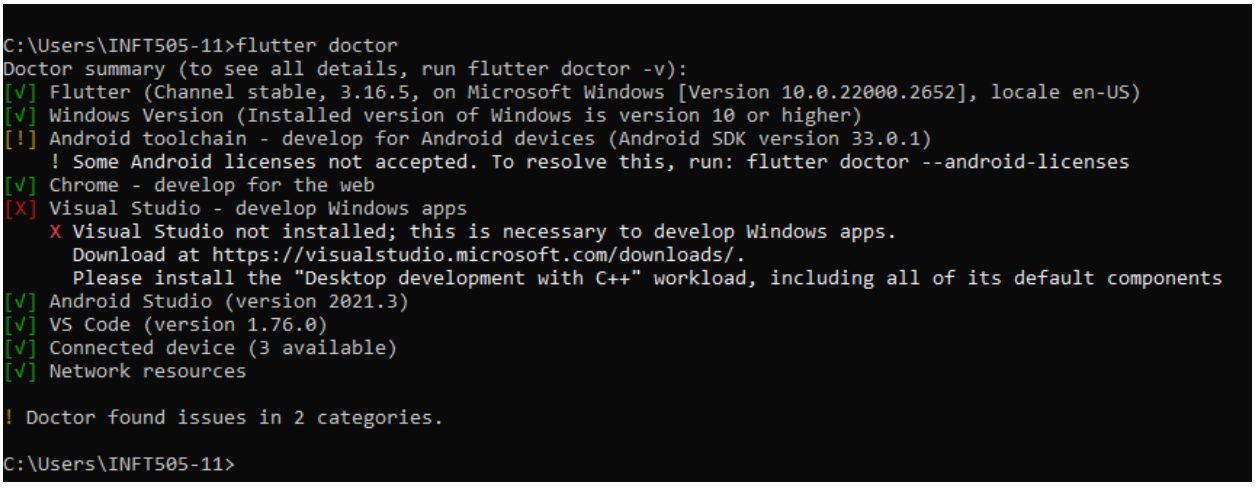
INSTALLATION :






docs.flutter.dev/get-started/install/windows/mobile?tab=download
Flutter
Multi-Platform
Development
Ecosystem
Showcase
Docs
Get started
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
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


Administrator: Command Prompt - flutter
Microsoft Windows [Version 10.0.22000.2652]
(c) Microsoft Corporation. All rights reserved.
C:\Users\INFT505-11>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 informati
on. (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.

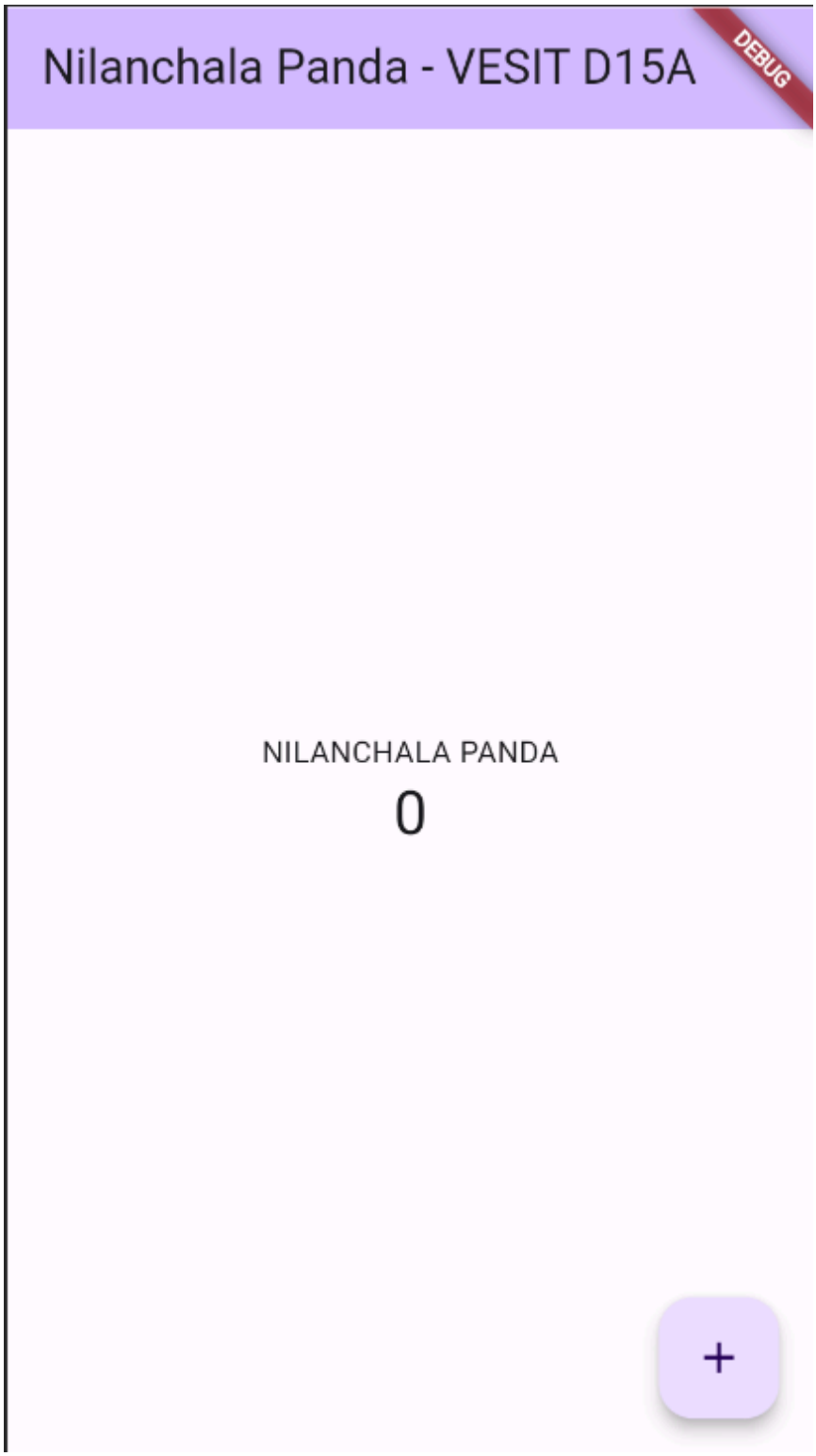

C:\Users\INFT505-11>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[V] Flutter (Channel stable, 3.16.5, on Microsoft Windows [Version 10.0.22000.2652], locale en-US)
[V] Windows Version (Installed version of Windows is version 10 or higher)
[!] Android toolchain - develop for Android devices (Android SDK version 33.0.1)
! Some Android licenses not accepted. To resolve this, run: flutter doctor --android-licenses
[V] 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
[V] Android Studio (version 2021.3)
[V] VS Code (version 1.76.0)
[V] Connected device (3 available)
[V] Network resources
! Doctor found issues in 2 categories.
C:\Users\INFT505-11>

Code:

```
  void _incrementCounter() {
    setState(() {
      _counter = _counter + 2;
    });
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        backgroundColor: Theme.of(context).colorScheme.inversePrimary,
        title: Text(widget.title),
      ), // AppBar
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
            const Text(
              'NILANCHALA PANDA',
            ), // Text
            Text(
              '$_counter',
              style: Theme.of(context).textTheme.headlineMedium,
            ), // Text
          ], // <Widget>[]
        ), // Column
      ), // Center
      floatingActionButton: FloatingActionButton(
        onPressed: _incrementCounter,
        tooltip: 'Increment',
        child: const Icon(Icons.add),
      ), // This trailing comma makes auto-formatting nicer for build methods. // FloatingActionButton
    ); // Scaffold
  }
}
```

Output:



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