



**Android**  
Studio



Neowin



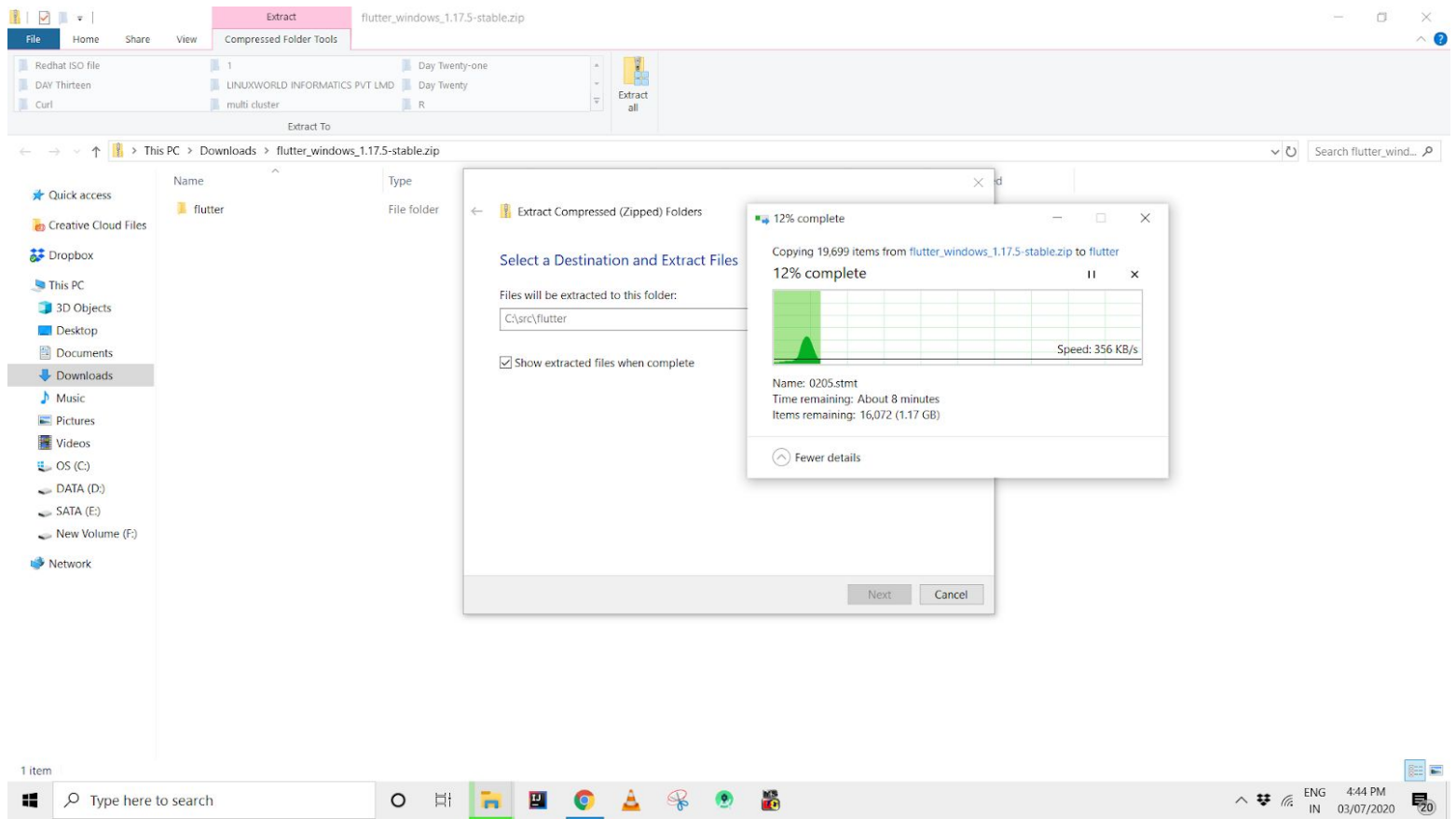
Visual Studio Code

# DAY 1

## Summary :-

1. In today's session we saw the importance of Flutter ,Android studio,vscode and installation of all of them.
- 2.Flutter is an app SDK for building high-performance, high-fidelity apps for iOS, Android, web (beta), and desktop from a single codebase.Flutter is Google's mobile UI framework
- 3.Flutter is a framework or a tool , dart is a language is used in this framework to built high-performance, high-fidelity apps for iOS and Android.
4. Its features of Hot reload and easy writing make it a better framework as compared to most cross-platform frameworks, perhaps even better than React Native.
5. Installation of flutter includes:  
Download flutter from the link <https://flutter.dev/docs/get-started/install> --->unzip flutter file --> set the path --> make the directory --> run flutter --version and flutter doctor cmd accordingly.
- 6.Install Android studio go to configure and install softwares
  - i.Android emulator
  - ii.Google USB driver
  - iii. Intel x86 emulator accelerator
  - iv. Android SDK tools
  - v. Android SDK platform tools
  - vi. Android SDK Build tools
7. Decide the path and install the recommended tools/software.
- 8.Create virtual device by clicking on --> configure --> AVD manager --> phone --.look for playstore --> size --> resolution
- 9.Decide which android version you want, either go for pie or oreo.  
Some of the commands are as follows:-  
flutter emulators  
flutter devices  
flutter doctor  
flutter run  
flutter emulators --launch <Nexus.....>  
and many more.

## Task :-



# Welcome to Flutter!



The Flutter plugin anonymously reports feature...



Sounds good!    No thanks

```

C:\Users\Asus>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, v1.17.5, on Microsoft Windows [Version 10.0.18362.900], locale en-US)

[✓] Android toolchain - develop for Android devices (Android SDK version 29.0.3)
[✓] Android Studio (version 3.6)
[!] Connected device
    ! No devices available

! Doctor found issues in 1 category.

C:\Users\Asus>flutter version
1.17.5
1.20.0-2.0.pre
1.19.0-4.2.pre
1.20.0-1.0.pre
1.17.4
1.19.0-4.1.pre
1.20.0-0.0.pre
1.19.0-5.0.pre
1.19.0-4.0.pre
1.17.3
1.19.0-3.0.pre
1.19.0-2.0.pre
1.17.2
1.18.0-11.1.pre
1.17.1
1.19.0-1.0.pre
1.19.0-0.0.pre
1.18.0-13.0.pre
1.18.0-12.0.pre
1.18.0-11.0.pre

```

Command Prompt

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-----  
Accept? (y/N): y  
All SDK package licenses accepted



```
Flutter Console

##### ##      ##      ## ##### ##### #####
##      ##      ##      ##      ##      ##
##      ##      ##      ##      ##      ##
##### ##      ##      ##      ##      ##
##      ##      ##      ##      ##      ##
##      ##      ##      ##      ##      ##
##      ##### #####      ##      ##      ##

WELCOME to the Flutter Console.
=====

Use the console below this message to interact with the "flutter" command.
Run "flutter doctor" to check if your system is ready to run Flutter apps.
Run "flutter create <app_name>" to create a new Flutter project.

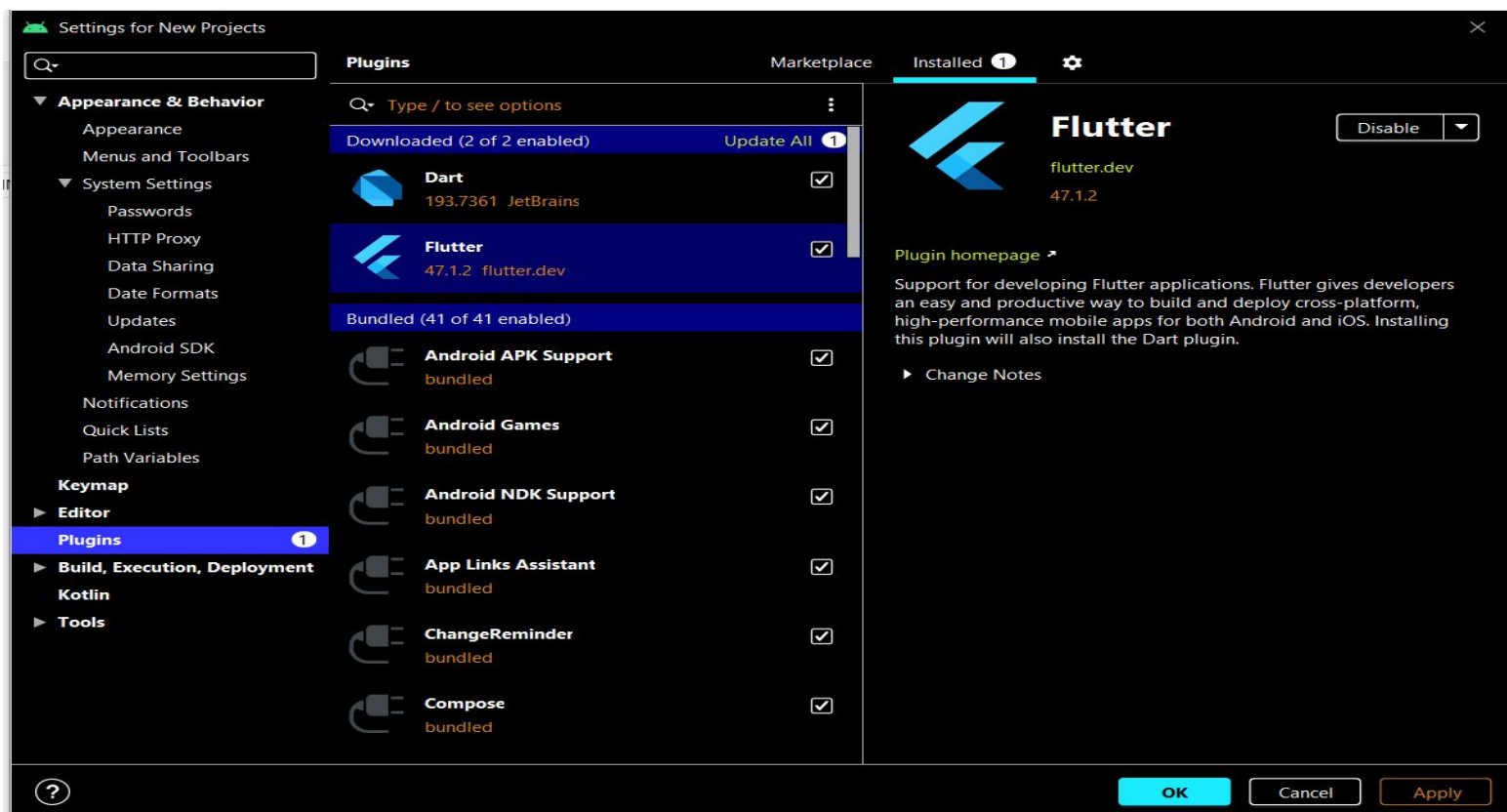
Run "flutter help" to see all available commands.

Want to use an IDE to interact with Flutter? https://flutter.dev/ide-setup/

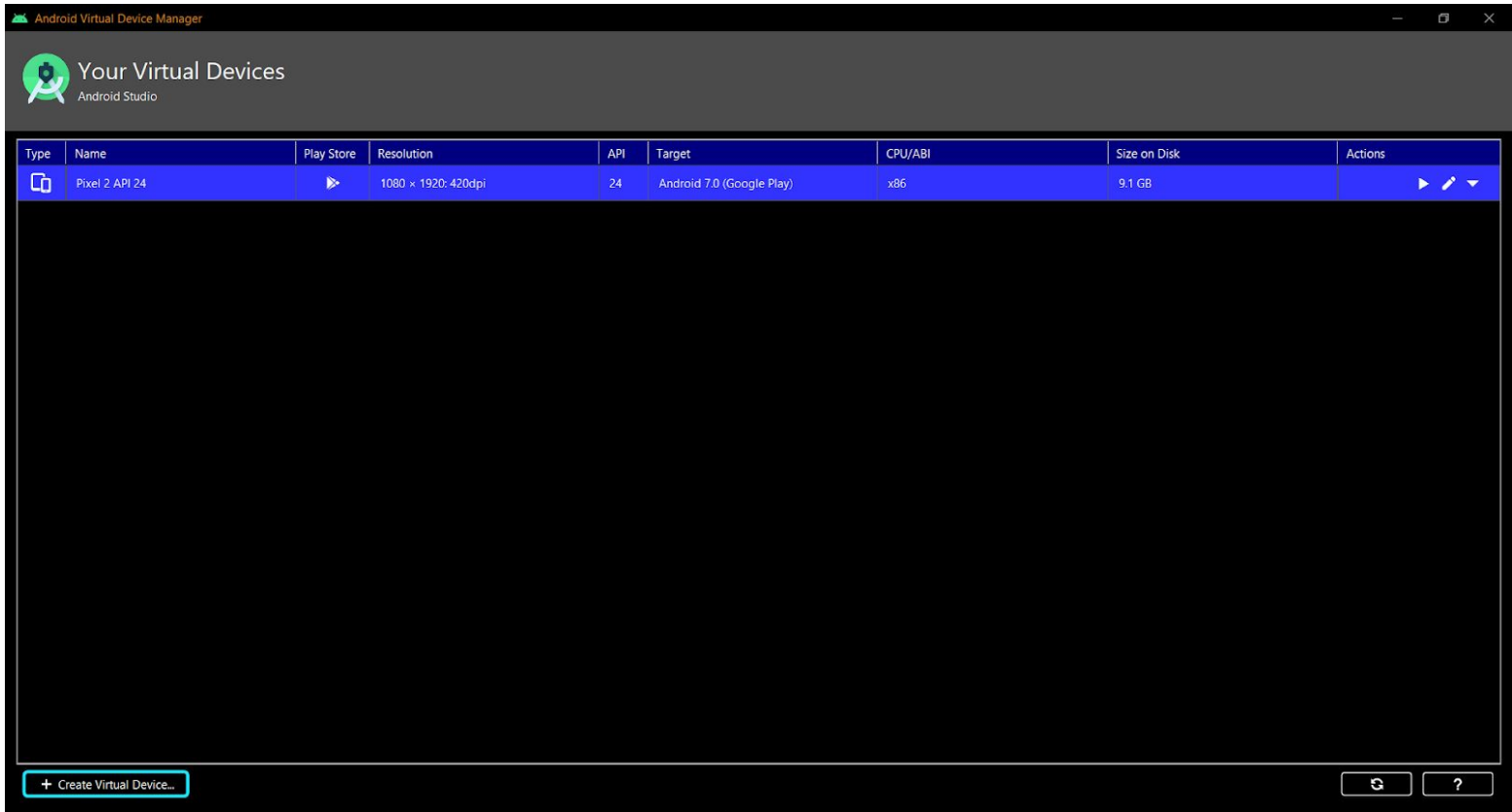
Want to run the "flutter" command from any Command Prompt or PowerShell window?
Add Flutter to your PATH: https://flutter.dev/setup-windows/#update-your-path
=====

C:\Users\Asus>flutter version
1.17.5
1.20.0-2.0.pre
1.19.0-4.2.pre
```

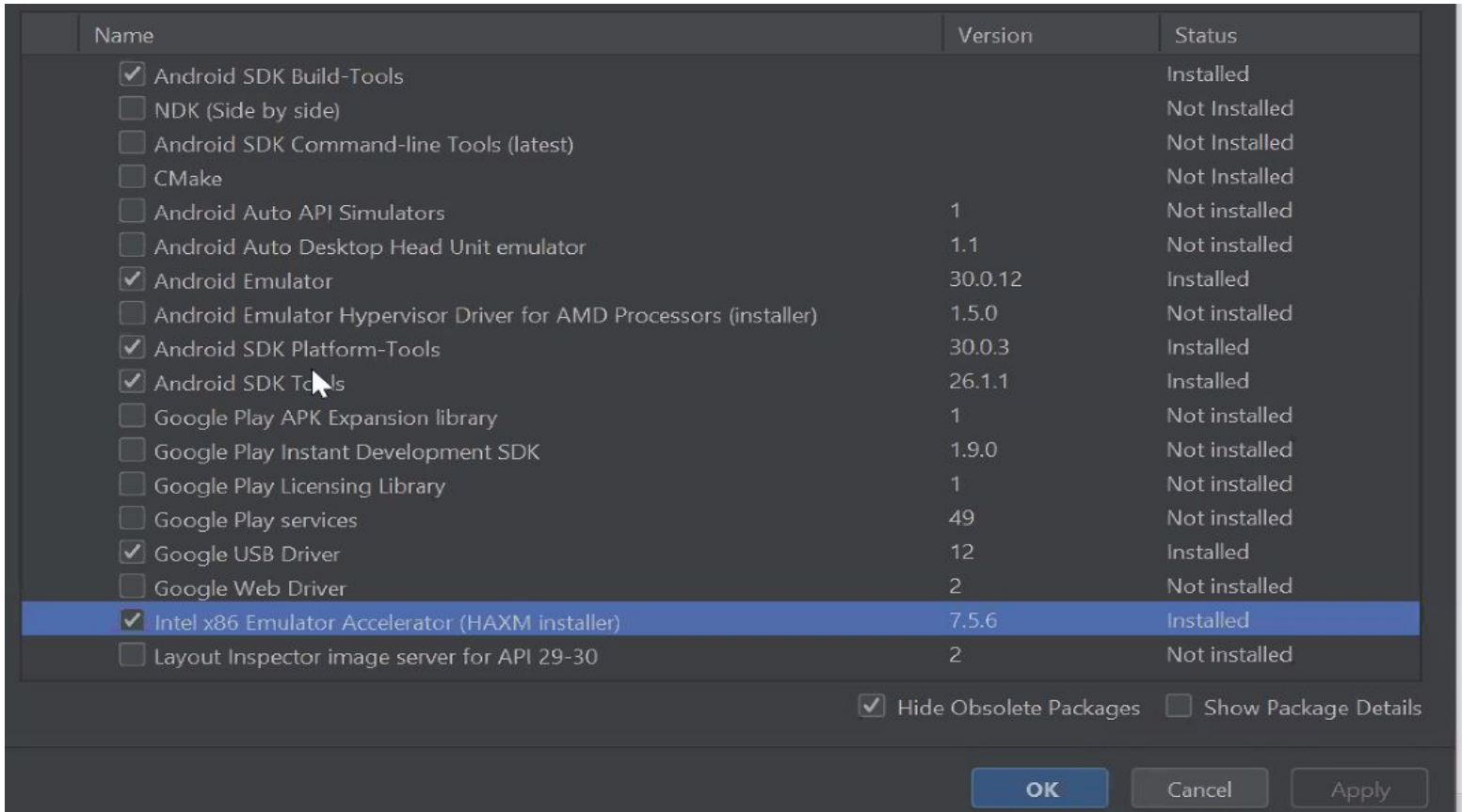
Setting environment on android studio for flutter and dart.



Setting virtual device on android studio....



Setting SDK manager



Virtual Device Configuration



System Image

Select a system image

Recommended

x86 Images

Other Images

Release Name	API Level	ABI	Target
 Download	30	x86	Android 10.0+ (Google Play)
 Download	29	x86	Android 10.0 (Google Play)
<b>Pie</b>	28	x86	Android 9.0 (Google Play)
 Download	27	x86	Android 8.1 (Google Play)
 Download	26	x86	Android 8.0 (Google Play)
 Download	25	x86	Android 7.1.1 (Google Play)
<b>Nougat</b>	24	x86	Android 7.0 (Google Play)

Pie



API Level

28

Android

9.0

Google Inc.

System Image

x86

We recommend these Google Play images because this device is compatible with Google Play.

Questions on API level?

See the [API level distribution chart](#)

?

Previous

Next

Cancel

Finish

Virtual Device Configuration



Android Virtual Device (AVD)

Verify Configuration

AVD Name

Nexus 5X API 28

 Nexus 5X

5.2 1080x1920 420dpi

Change...

 Pie

Android 9.0 x86

Change...

Startup orientation



Portrait



Landscape

Emulated Performance

Graphics: Automatic

Device Frame

☒ Enable Device Frame

Show Advanced Settings

AVD Name

The name of this AVD.

?

Previous

Next

Cancel

Finish

Android Virtual Device Manager

Your Virtual Devices

Android Studio

Type	Name	Play Store	Resolution	API	Target	CPU/ABI	Size on Disk	Actions
	Nexus 5X API 28		1080 x 1920: 420dpi	28	Android 9.0 (Google Play)	x86	513 MB	
	Pixel 2 API 24		1080 x 1920: 420dpi	24	Android 7.0 (Google Play)	x86	9.1 GB	

+ Create Virtual Device...

Android Virtual Device Manager

Your Virtual Devices

Android Studio

Type	Name	Play Store	Resolution	API	Target	CPU/ABI	Size on Disk	Actions
	Nexus 5X API 28		1080 x 1920: 420dpi	28	Android 9.0 (Google Play)	x86	513 MB	
	Pixel 2 API 24		1080 x 1920: 420dpi	24	Android 7.0 (Google Play)	x86	9.1 GB	

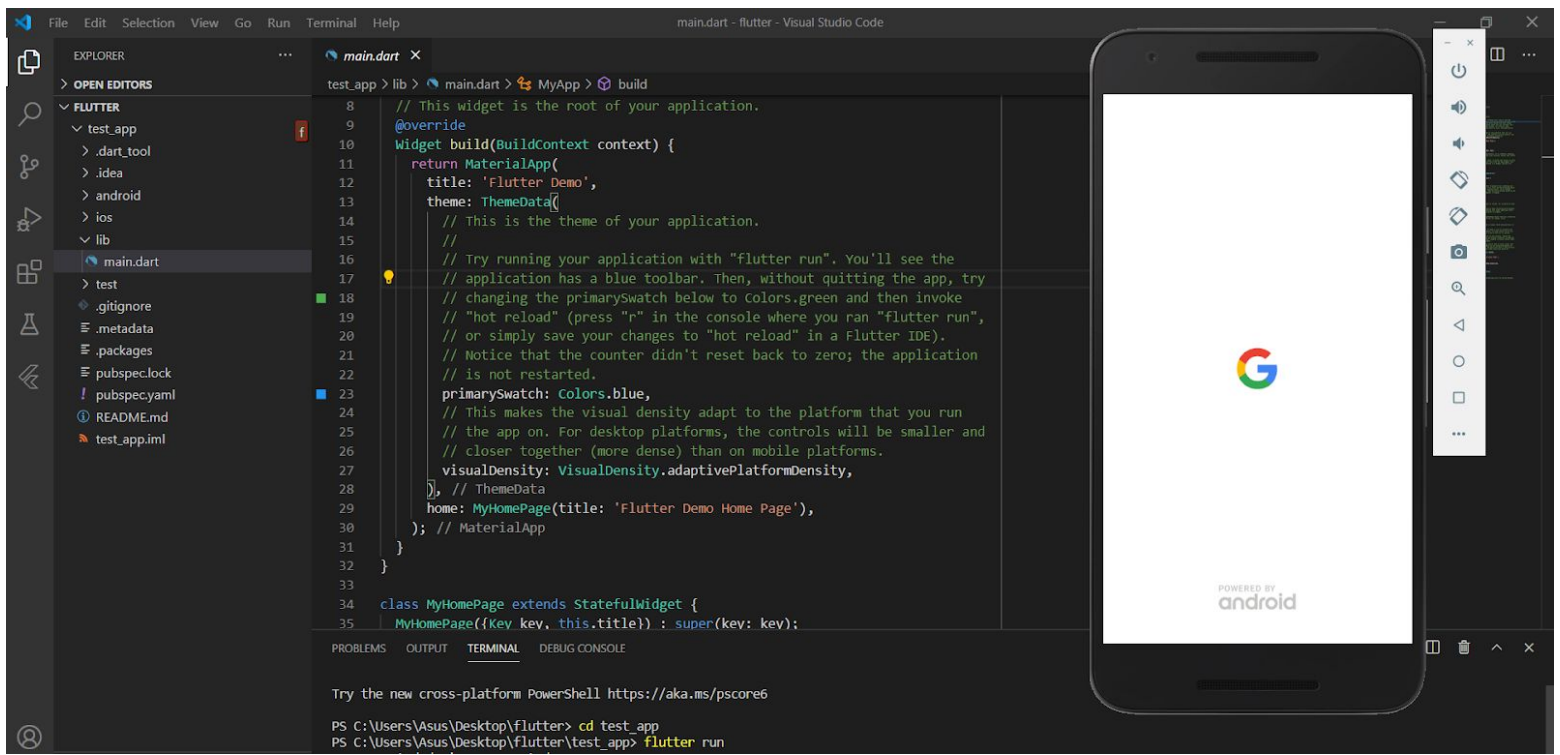
Launching Emulator

Starting AVD...

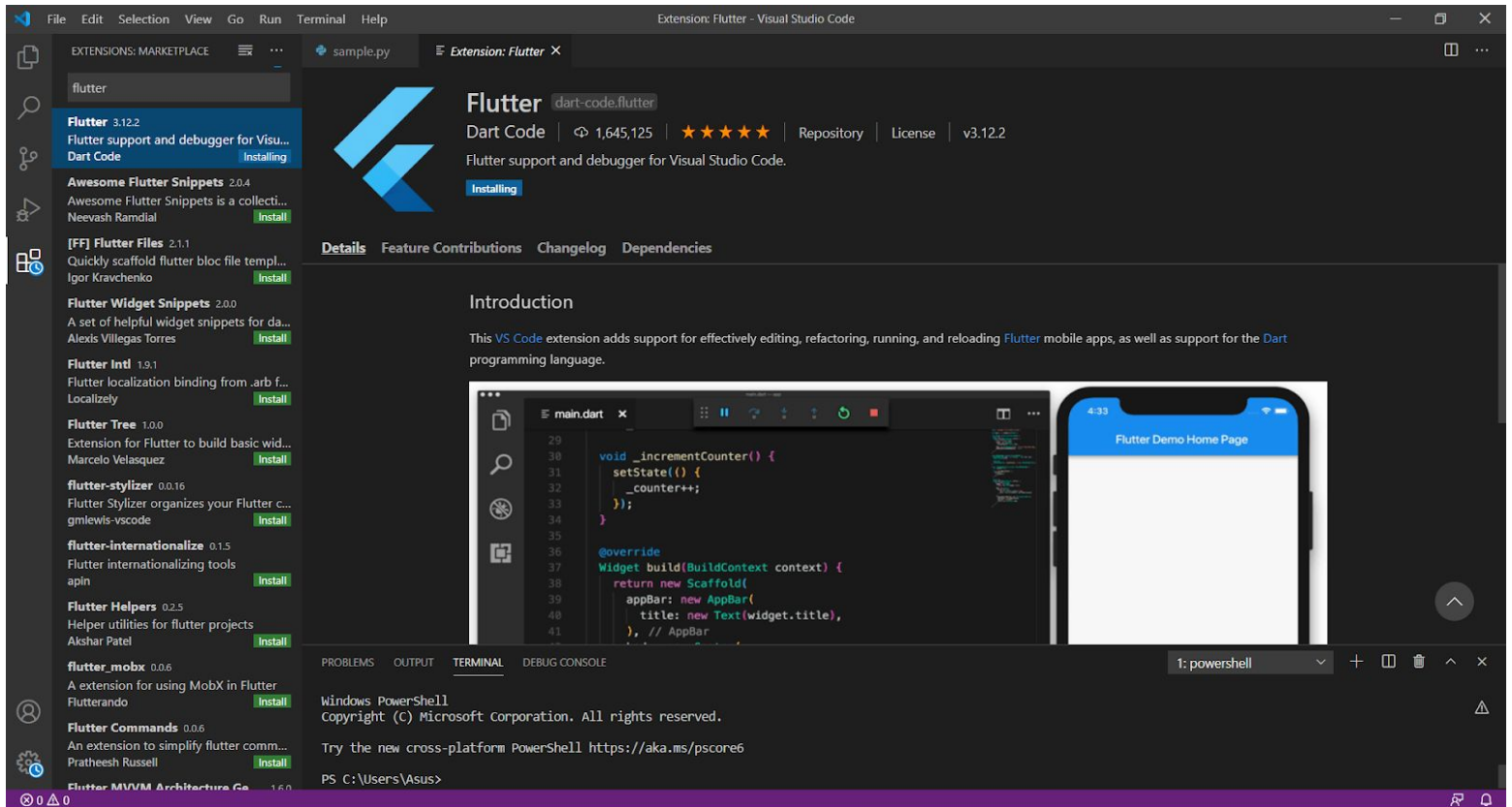
Background

+ Create Virtual Device...





Setting flutter and dart in VS code ....



File Edit Selection View Go Run Terminal Help Extension: Dart - Visual Studio Code

EXTENSIONS: MARKETPLACE

sample.py Extension: Dart X

dart

**Dart** 3.12.2  
Dart language support and debugger ...  
Dart Code

**dart-import** 0.2.0  
Fix Dart/Flutter's imports  
Luan **Install**

**Dart Data Class Generator** 0.3.18  
Create dart data classes easily, fast an...  
BendixMa **Install**

**Dart (Syntax Highlighting Only)** 1.0.1  
Syntax highlighting for Dart and nothi...  
oscarcs **Install**

**Puzzle Dart** 0.0.2  
XAML for Dart Language Support  
bigmogician **Install**

**Dart Built Value Snippets** 1.1.1  
VS Code Snippets for the Dart built\_va...  
YongZhen Low **Install**

**Json to Dart Model** 2.2.0  
Extension convert Json to Dart Model ...  
hirantha **Install**

**Dart Getters And Setters** 0.0.4  
Dart Generate Getters And Setters  
Peter Haddad **Install**

**Dart Extensions Snippets** 1.0.0  
Snippets to create extensions in Dart  
Jordan ALCARAZ **Install**

**XAML for Dart Language Supp...** 0.0.1  
XAML for Dart Language Support  
bigmogician **Install**

**goVSCode Flutter & Dart** 0.0.4  
Dedicated to making our lives easier. ...  
Tap Payments **Install**

**Flutter (dart) generator** 0.0.3

**Dart** `dart-code.dart-code`  
Dart Code | 1,706,161 | ★★★★★ | Repository | License | v3.12.2  
Dart language support and debugger for Visual Studio Code.  
**Disable** **Uninstall** This extension is enabled globally.

**Details** **Feature Contributions** **Changelog**

[chat](#) [discord](#) [chat](#) [gitter](#) [twitter](#) [dartcode](#) [help](#) [contribute](#)

### Introduction

Dart Code extends VS Code with support for the Dart programming language, and provides tools for effectively editing, refactoring, running, and reloading Flutter mobile apps, and AngularDart web apps.

### Installation

Dart Code can be installed from the Visual Studio Code Marketplace or by searching within VS Code.

### Features

- Edit and Debug Flutter mobile apps (launch using F5 or the Debug menu)
- Edit and Debug Dart command line apps (launch using F5 or the Debug menu)
- Automatic hot reloads for Flutter
- Refactorings and Code fixes (lightbulb)
- Quickly switch between devices for Flutter

PROBLEMS OUTPUT **TERMINAL** DEBUG CONSOLE

1: powershell

Windows PowerShell  
Copyright (C) Microsoft Corporation. All rights reserved.  
Try the new cross-platform PowerShell <https://aka.ms/pscore6>  
PS C:\Users\Asus>

Would you like to use recommended VS Code settings for Dart & Flutter?  
Source: Dart (Extension) **Yes** **No** **Show Recommended Settings**

File Edit Selection View Go Run Terminal Help Welcome - flutter - Visual Studio Code

EXPLORER

OPEN EDITORS

FLUTTER

test\_app

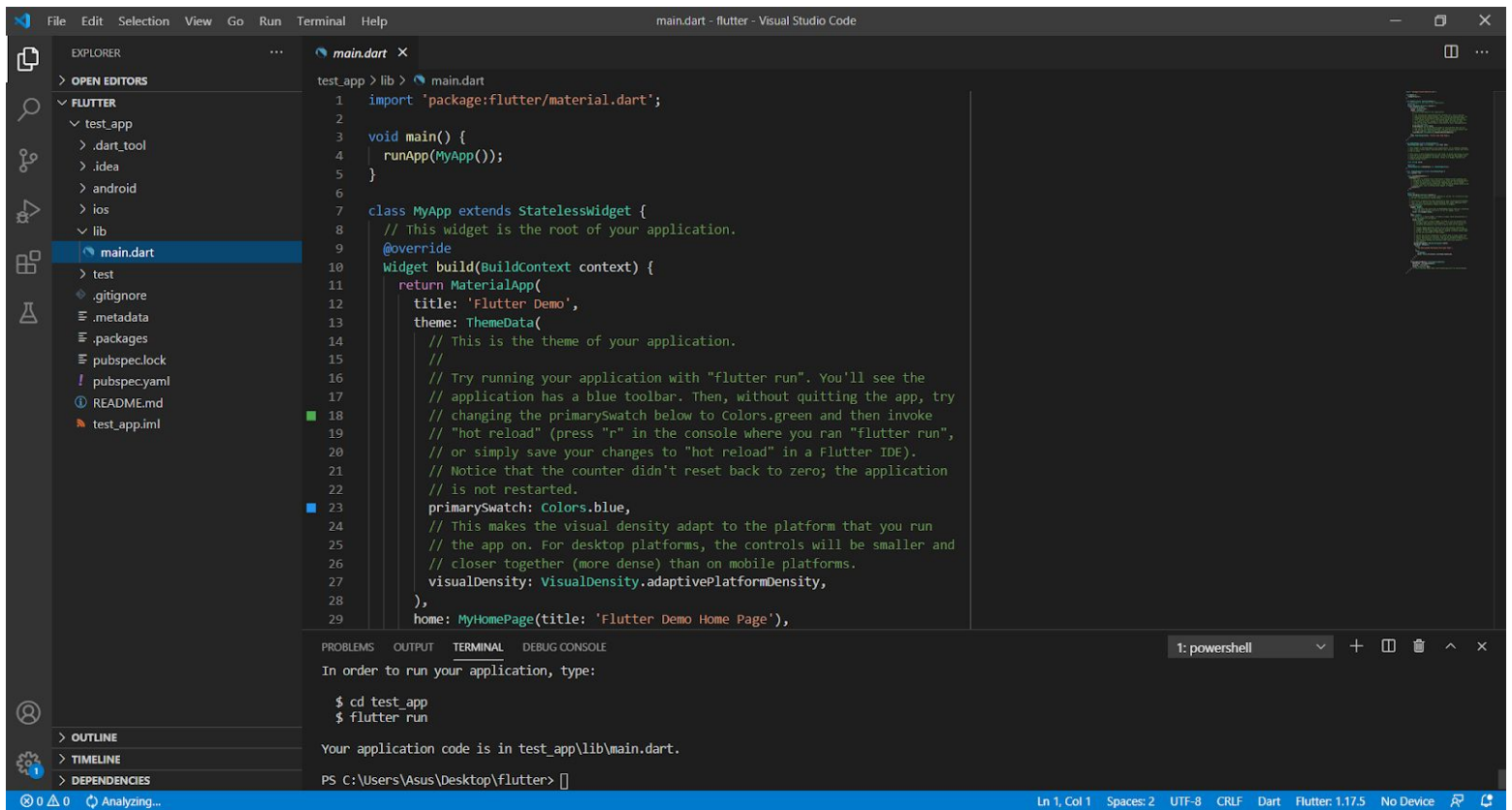
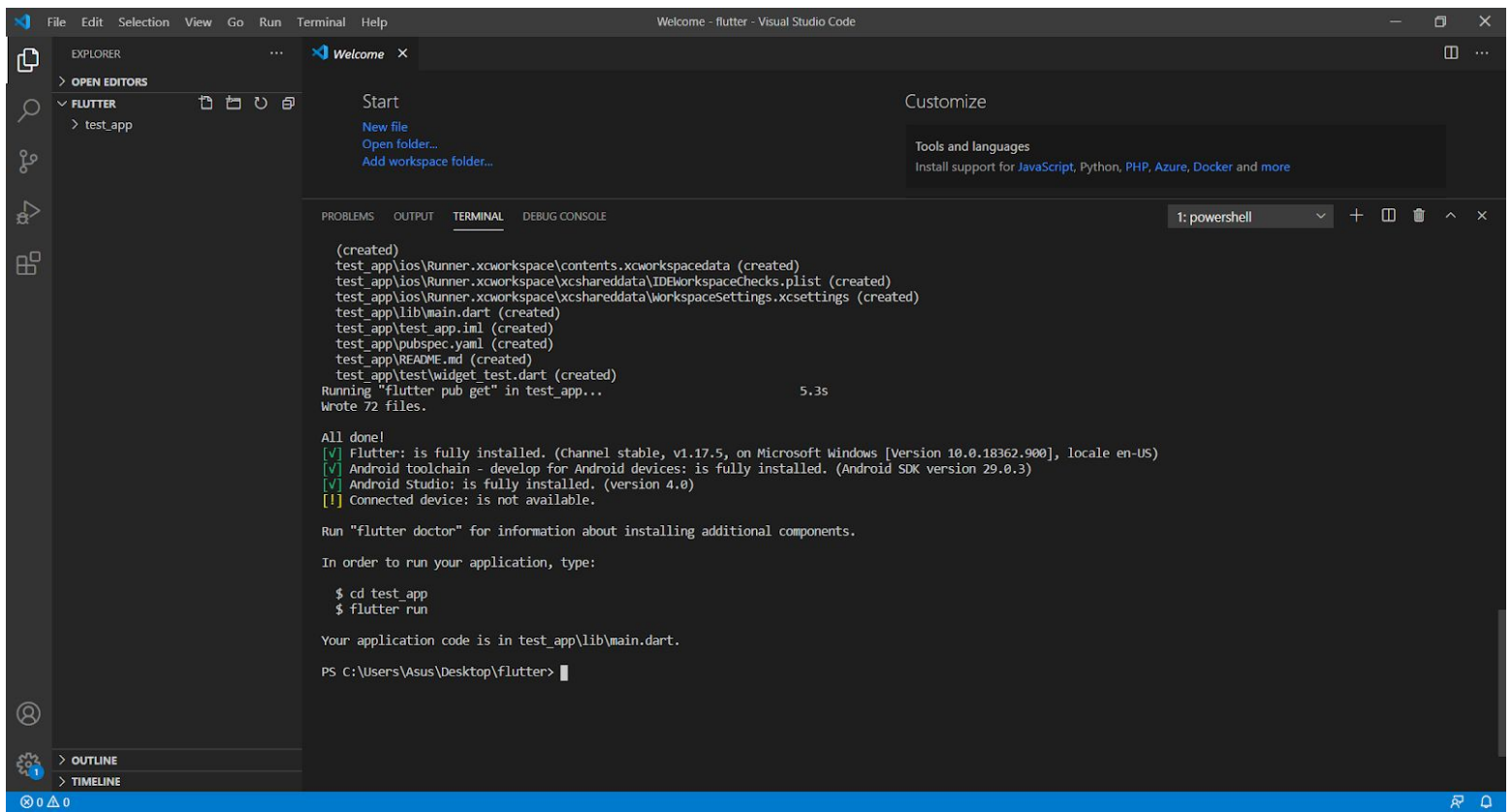
**Start**  
[New file](#)  
[Open folder...](#)  
[Add workspace folder...](#)

**Customize**  
Tools and languages  
Install support for JavaScript, Python, PHP, Azure, Docker and more

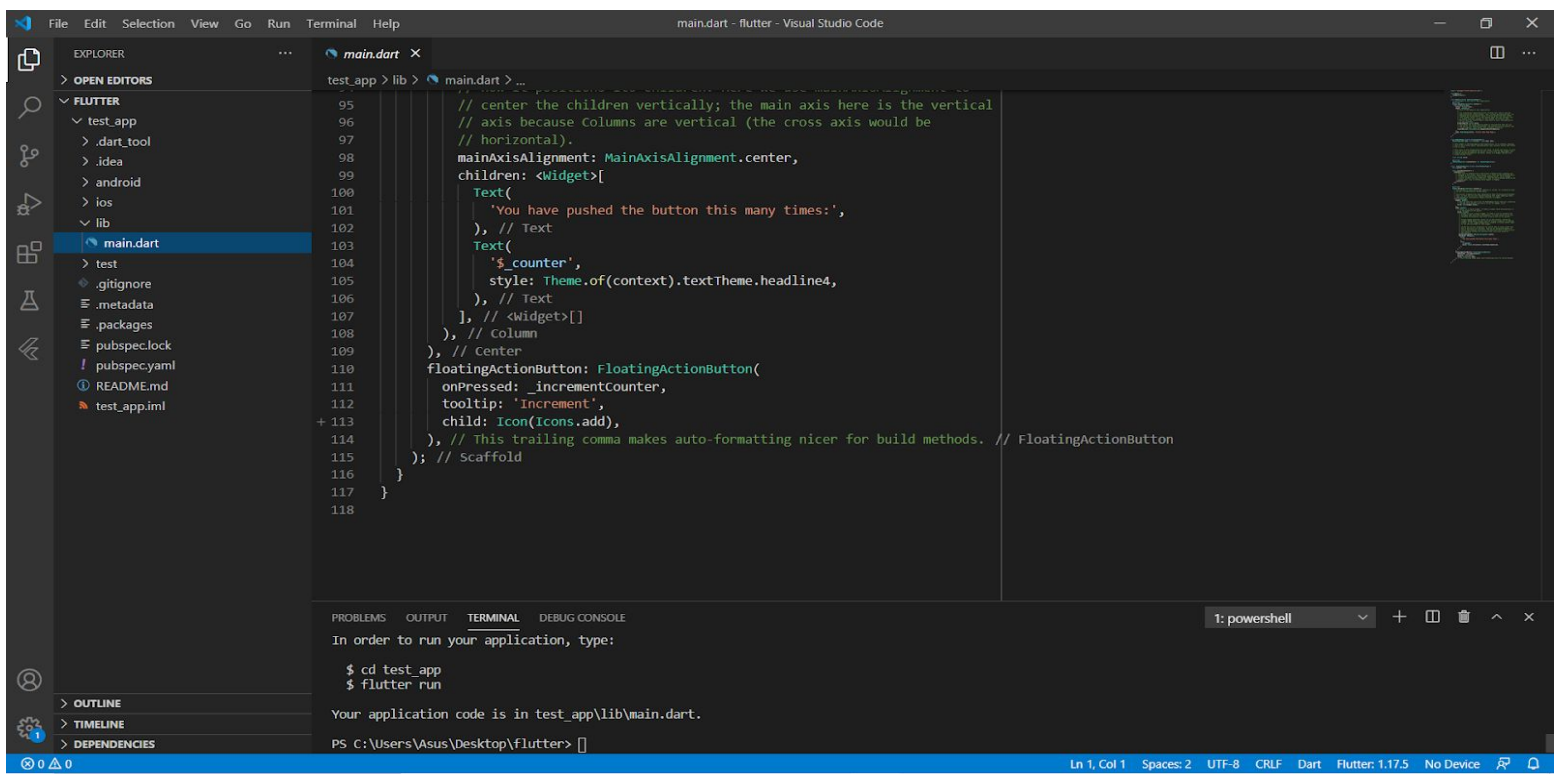
PROBLEMS OUTPUT **TERMINAL** DEBUG CONSOLE

1: dart

Copyright (C) Microsoft Corporation. All rights reserved.  
Try the new cross-platform PowerShell <https://aka.ms/pscore6>  
PS C:\Users\Asus\Desktop\flutter> flutter create test\_app  
Creating project test\_app...  
Running "flutter pub get" in flutter\_tools... 2.3s  
test\_app\gitignore (created)  
test\_app\idea\libraries\Dart\_SDK.xml (created)  
test\_app\idea\libraries\Flutter\_for\_Android.xml (created)  
test\_app\idea\libraries\kotlinJavaRuntime.xml (created)  
test\_app\idea\modules.xml (created)  
test\_app\idea\runConfigurations\main\_dart.xml (created)  
test\_app\idea\workspace.xml (created)  
test\_app\metadata (created)  
test\_app\android\app\build.gradle (created)  
test\_app\android\app\src\main\kotlin\com\example\test\_app\MainActivity.kt (created)  
test\_app\android\build.gradle (created)  
test\_app\android\test\_app\_android.iml (created)  
test\_app\android\gitignore (created)  
test\_app\android\app\src\debug\AndroidManifest.xml (created)  
test\_app\android\app\src\main\AndroidManifest.xml (created)  
test\_app\android\app\src\main\res\drawable\launch\_background.xml (created)  
test\_app\android\app\src\main\res\mipmap-hdpi\ic\_launcher.png (created)  
test\_app\android\app\src\main\res\mipmap-mdpi\ic\_launcher.png (created)  
test\_app\android\app\src\main\res\mipmap-xhdpi\ic\_launcher.png (created)  
test\_app\android\app\src\main\res\mipmap-xxhdpi\ic\_launcher.png (created)  
test\_app\android\app\src\main\res\values\styles.xml (created)  
test\_app\android\app\src\profile\AndroidManifest.xml (created)  
test\_app\android\gradle\wrapper\gradle-wrapper.properties (created)  
test\_app\android\gradle.properties (created)  
test\_app\android\settings.gradle (created)





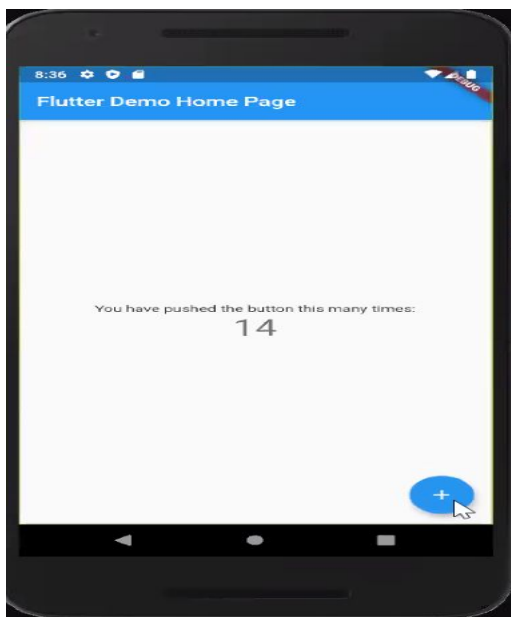


Your application code is in test\_app\lib\main.dart.

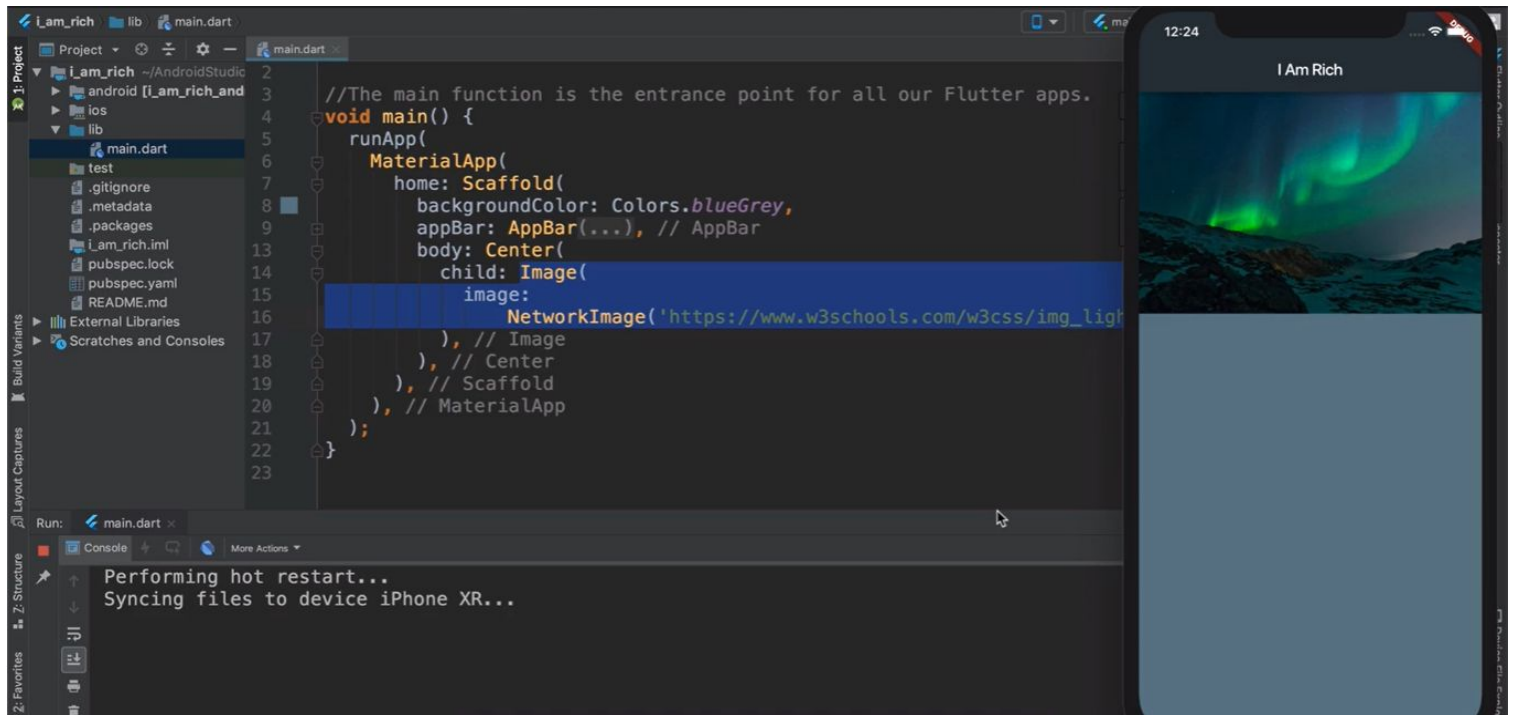
```
PS C:\Users\Asus\Desktop\flutter> flutter emulators
1 available emulator:
```

Pixel\_2\_API\_24 • Pixel 2 API 24 • Google • android

```
PS C:\Users\Asus\Desktop\flutter> flutter emulators --create [--Pixel_2_API_24 Pixel 2 API 24 Google android]
Emulator 'flutter_emulator' created successfully.
```



Other program on android studio....



Thanks for Reading!!!