

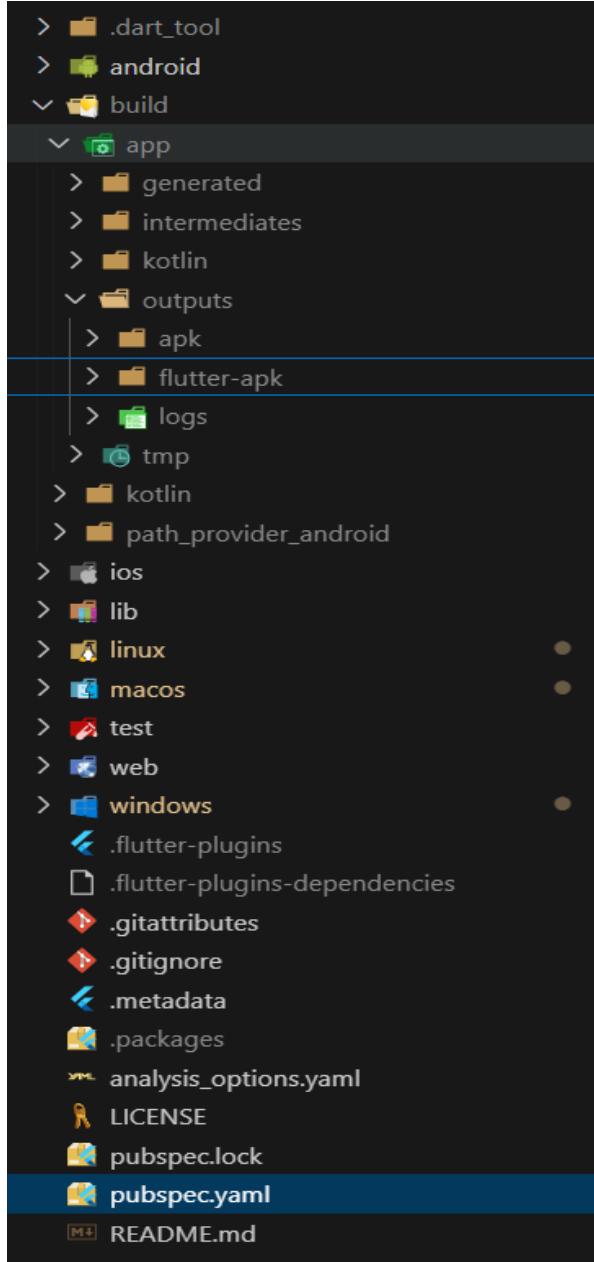
# Advance Python Programming

## Flutter App Deployment

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### Project Structure:



## Dependencies Installation:

```
C:\Users\monee>flutter --version
Flutter 3.0.5 • channel stable • https://github.com/flutter/flutter.git
Framework • revision f1875d570e (3 years, 4 months ago) • 2022-07-13 11:24:16 -0700
Engine • revision e85ea0e79c
Tools • Dart 2.17.6 • DevTools 2.12.2
```

```
C:\Users\monee>java -version
openjdk version "11.0.29" 2025-10-21
OpenJDK Runtime Environment Temurin-11.0.29+7 (build 11.0.29+7)
OpenJDK 64-Bit Server VM Temurin-11.0.29+7 (build 11.0.29+7, mixed mode)
```

```
C:\Users\monee>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.0.5, on Microsoft Windows [Version 10.0.22631.5624], locale en-IN)
[✓] Android toolchain - develop for Android devices (Android SDK version 33.0.0)
[✓] Chrome - develop for the web
[✗] Visual Studio - develop for Windows
  X Visual Studio not installed; this is necessary for Windows development.
    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 1.105.1)
[✓] Connected device (3 available)
[✓] HTTP Host Availability

! Doctor found issues in 2 categories.
```

## Commands to run and deploy the flutter application:

```
monee@IdeaPad MINGW64 /c/Users/monee/flutter_2048 (main)
● $ flutter pub get
  Running "flutter pub get" in flutter_2048...
```

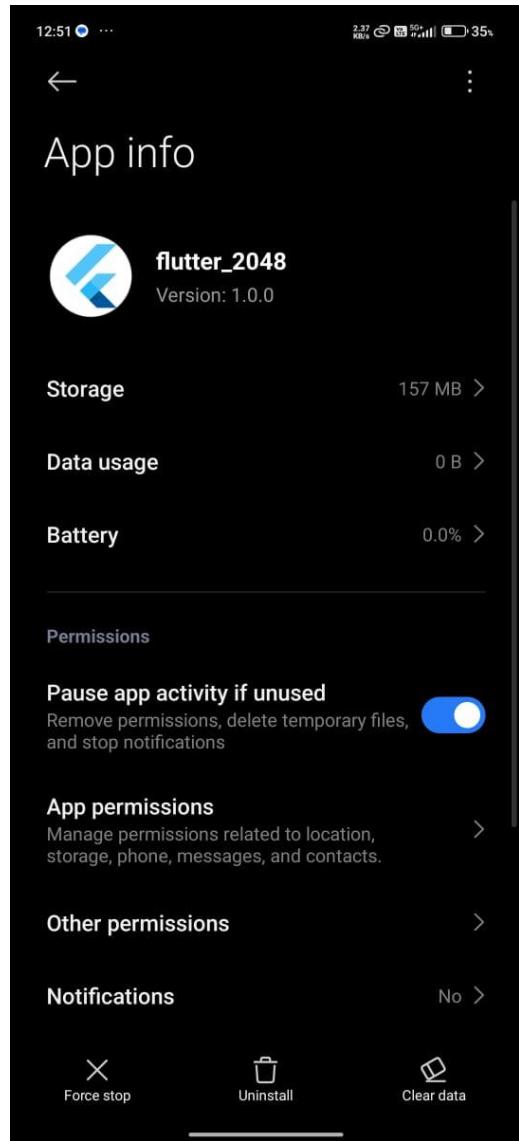
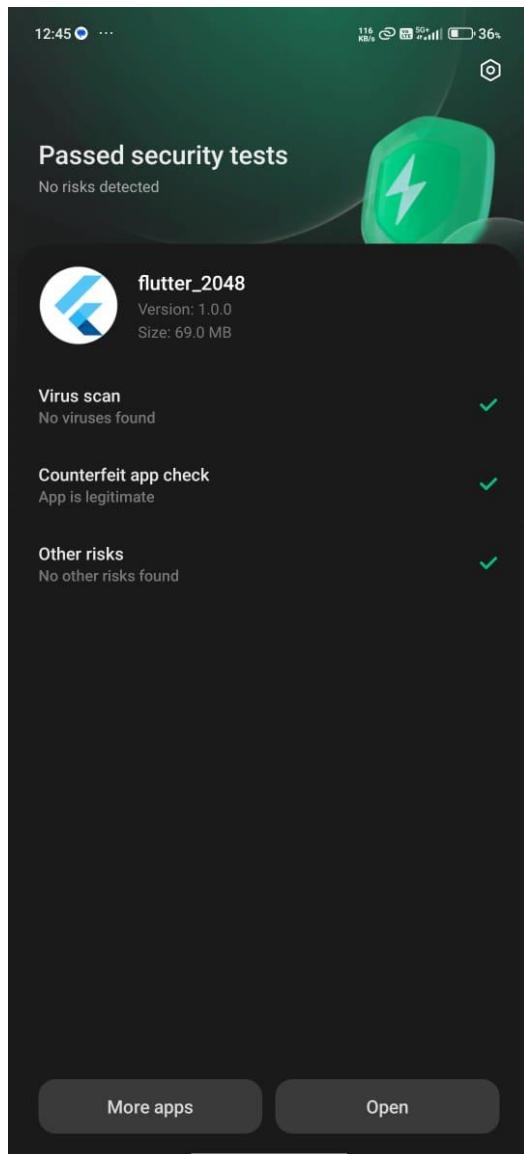
```
monee@IdeaPad MINGW64 /c/Users/monee/flutter_2048 (main)
$ flutter build apk --debug
● Building with sound null safety

Checking the license for package Android SDK Build-Tools 30.0.3 in C:\Android\licenses
License for package Android SDK Build-Tools 30.0.3 accepted.
Preparing "Install Android SDK Build-Tools 30.0.3 (revision: 30.0.3)".
"Install Android SDK Build-Tools 30.0.3 (revision: 30.0.3)" ready.
Installing Android SDK Build-Tools 30.0.3 in C:\Android\build-tools\30.0.3
"Install Android SDK Build-Tools 30.0.3 (revision: 30.0.3)" complete.
"Install Android SDK Build-Tools 30.0.3 (revision: 30.0.3)" finished.
Checking the license for package Android SDK Platform 31 in C:\Android\licenses
License for package Android SDK Platform 31 accepted.
Preparing "Install Android SDK Platform 31 (revision: 1)".
"Install Android SDK Platform 31 (revision: 1)" ready.
Installing Android SDK Platform 31 in C:\Android\platforms\android-31
"Install Android SDK Platform 31 (revision: 1)" complete.
"Install Android SDK Platform 31 (revision: 1)" finished.
Running Gradle task 'assembleDebug'...                                650.5s
✓ Built build\app\outputs\flutter-apk\app-debug.apk.
```

## Apk Created:

Name	Date modified	Type	Size
app	12-11-2025 00:40	BlueStacks Android P...	70,655 KB
app.apk.sha1	12-11-2025 00:40	SHA1 File	1 KB
app-debug	12-11-2025 00:40	BlueStacks Android P...	70,655 KB

## Apk Installation in mobile:



## App:

