

EXP 1: Installation and Configuration of Flutter Environment.

Visit <https://docs.flutter.dev/get-started/install>

The image shows a screenshot of the Flutter documentation website and a Windows Environment Variables dialog box. The website is at docs.flutter.dev/get-started/install. The main heading is "Choose your development platform to get started". Below this, there are four buttons for different operating systems: Windows, macOS, Linux, and ChromeOS. The Windows button is highlighted. Below the website screenshot, the Windows Environment Variables dialog box is open. It shows the "User variables for javatpoint" section with a table of variables. The "path" variable is highlighted, showing its value as "C:\Program Files\Java\jdk-10\bin;C:\Users\javatpoint\AppData\Roaming\Flutter\flutter_tools\flutter.bat;C:\Users\javatpoint\AppData\Local\Temp". The "System variables" section is also visible, showing a table of system variables. The "path" variable is highlighted in the system variables section, showing its value as "C:\Program Files\nodejs\;C:\Program Files\Git\cmd;.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC".

Flutter

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Choose your development platform to get started

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Environment Variables

User variables for javatpoint

Variable	Value
OneDrive	C:\Users\javatpoint\OneDrive
path	C:\Program Files\Java\jdk-10\bin;C:\Users\javatpoint\AppData\Roaming\Flutter\flutter_tools\flutter.bat;C:\Users\javatpoint\AppData\Local\Temp
TEMP	C:\Users\javatpoint\AppData\Local\Temp
TMP	C:\Users\javatpoint\AppData\Local\Temp

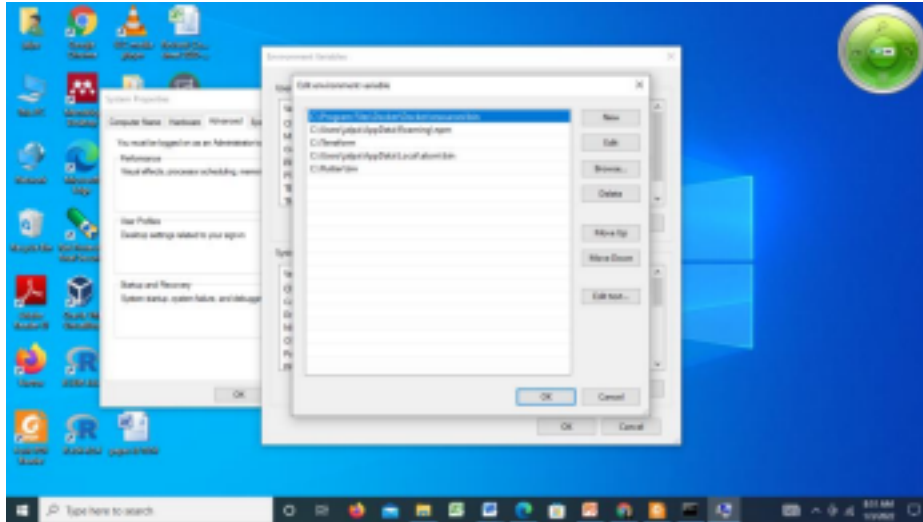
New... Edit... Delete

System variables

Variable	Value
ComSpec	C:\WINDOWS\system32\cmd.exe
DriverData	C:\Windows\System32\Drivers\DriverData
NUMBER_OF_PROCESSORS	4
OS	Windows_NT
PATH	C:\Program Files\nodejs\;C:\Program Files\Git\cmd
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC
PROCESSOR_ARCHITECTURE	AMD64

New... Edit... Delete

OK Cancel



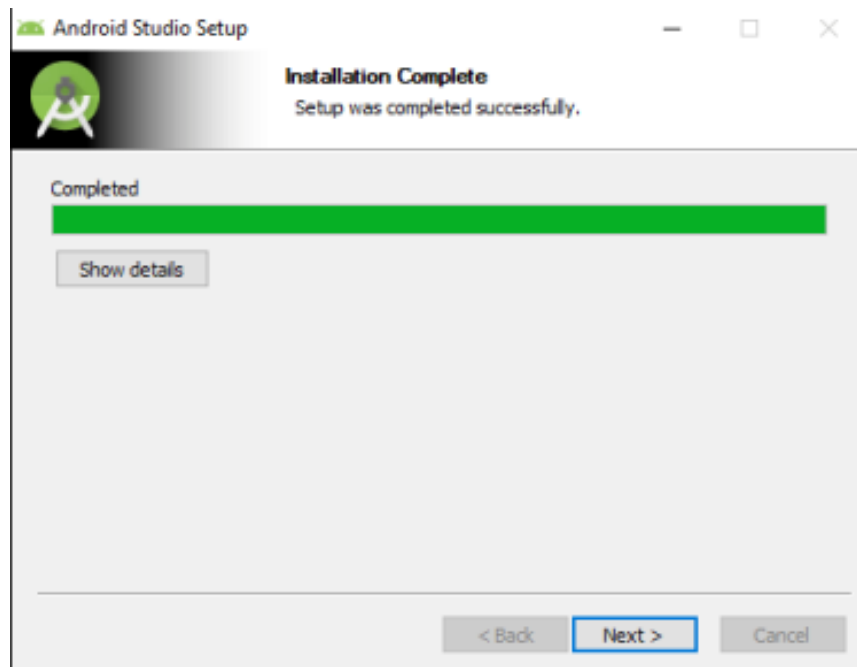
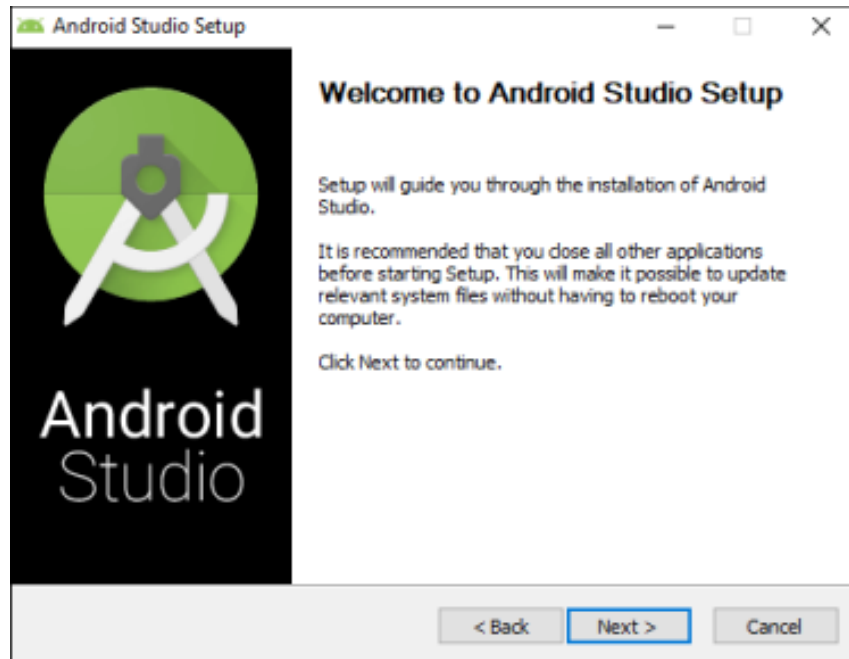
```
C:\>flutter --version
Flutter 3.16.7 • channel stable • https://github.com/flutter/flutter.git
Framework • revision ef1af02aea (4 days ago) • 2024-01-11 15:19:26 -0600
Engine • revision 4a585b7929
Tools • Dart 3.2.4 • DevTools 2.28.5
```

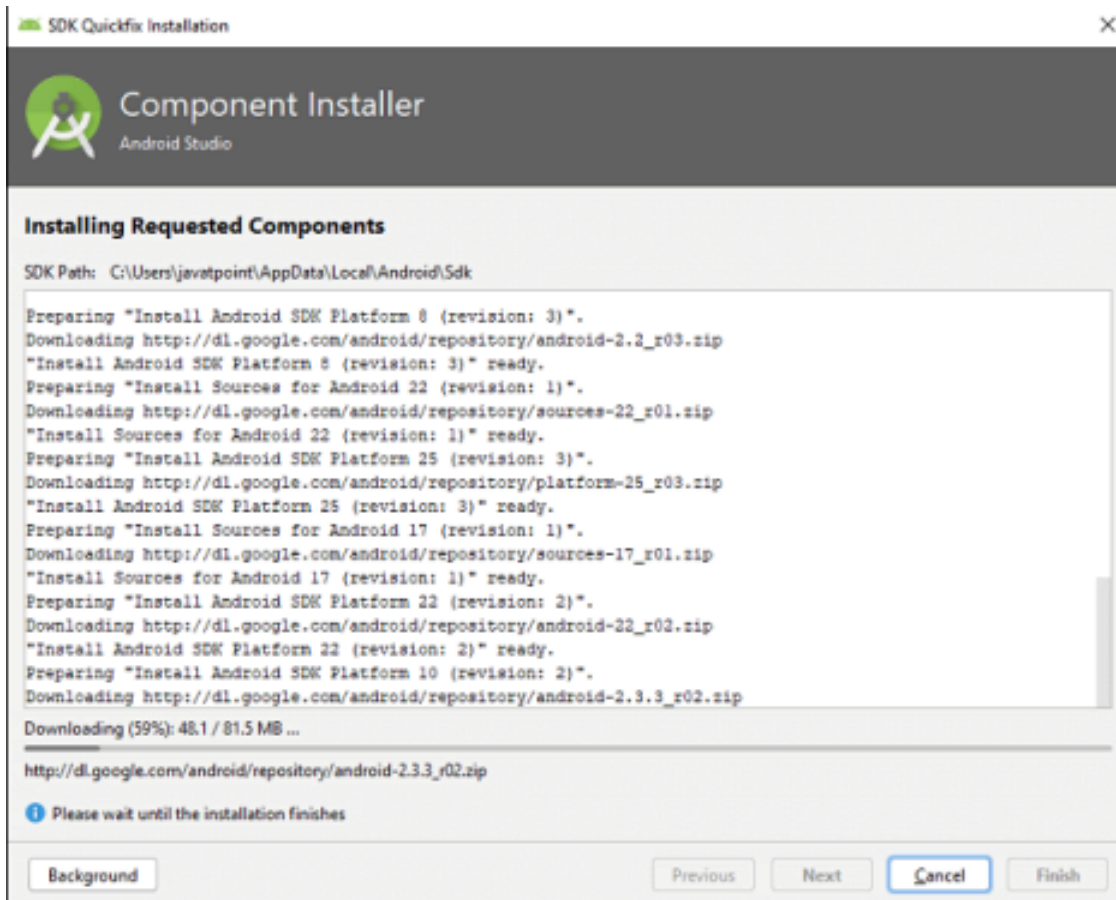
```
C:\Windows\System32\cmd.exe - flutter --version - flutter doctor - flutter create first_app

C:\>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.16.7, on Microsoft Windows [Version 10.0.19045.3448], locale en-IN)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[!] Android toolchain - develop for Android devices (Android SDK version 34.0.0)
    X cmdline-tools component is missing
      Run `path/to/sdkmanager --install "cmdline-tools;latest"`
      See https://developer.android.com/studio/command-line for more details.
    X Android license status unknown.
      Run `flutter doctor --android-licenses` to accept the SDK licenses.
      See https://flutter.dev/docs/get-started/install/windows#android-setup for more details.
[✓] Chrome - develop for the web
[✗] 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 2023.1)
[✓] VS Code (version 1.81.1)
[✓] Connected device (3 available)
[✓] Network resources

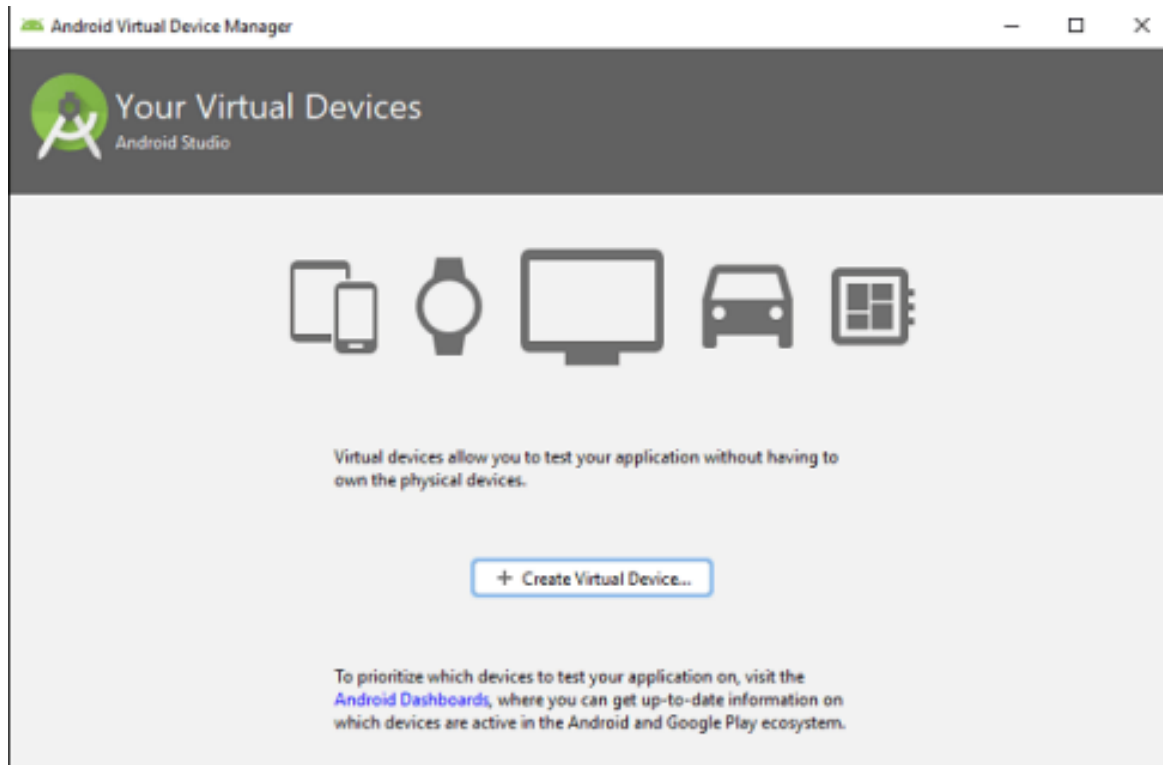
! Doctor found issues in 2 categories.
```

Download the latest **Android Studio** executable or zip file from the [official site](https://developer.android.com/studio).





Create Virtual Device





```
C:\>flutter create first_app
Creating project C:\first_app...
Resolving dependencies in C:\first_app... (48:05.7s)Terminate batch job (Y/N)? y
```

Creating Hello world app

CODE:

```
import 'package:flutter/material.dart';

void main() {
  runApp(const MyApp());
}

class MyApp extends StatelessWidget {
  const MyApp({Key? key}) : super(key: key);

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Welcome to Flutter',
      home: Scaffold(
        appBar: AppBar(
          title: const Text('Welcome to Flutter'),
        ),
        body: const Center(
          child: Text('Hello Abhinaya'),
        ),
      ),
    );
  }
}
```

```
);  
}  
}
```

OUTPUT:

