

MAD / PWA Lab

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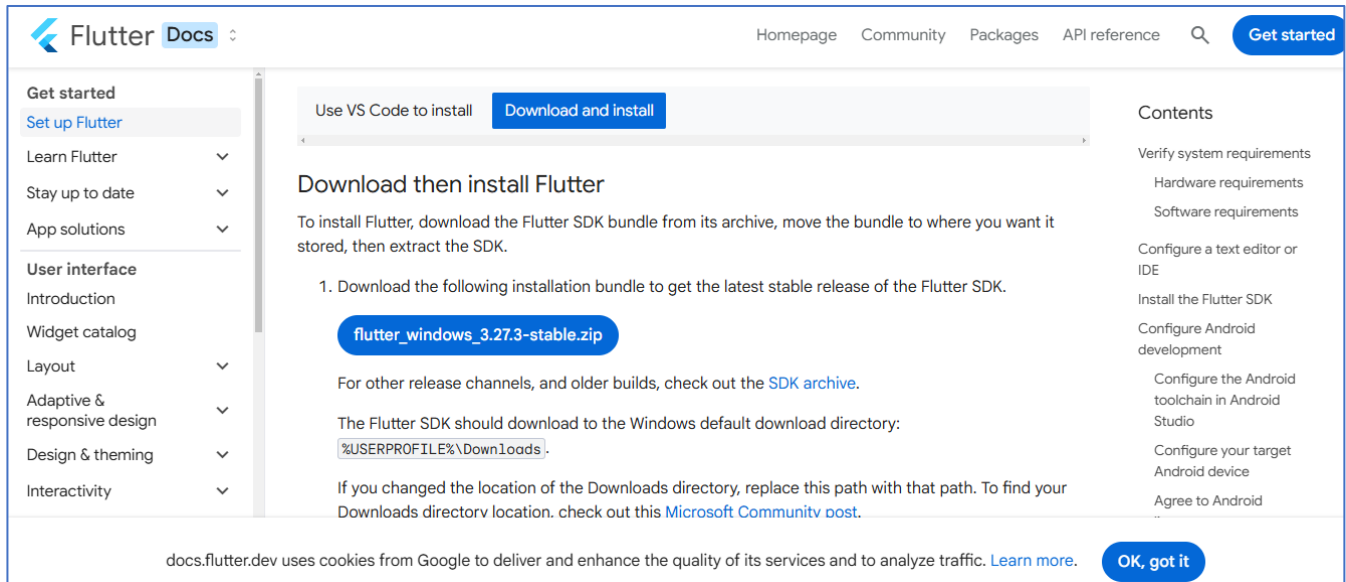
Class: D15A / B

Roll no. 25

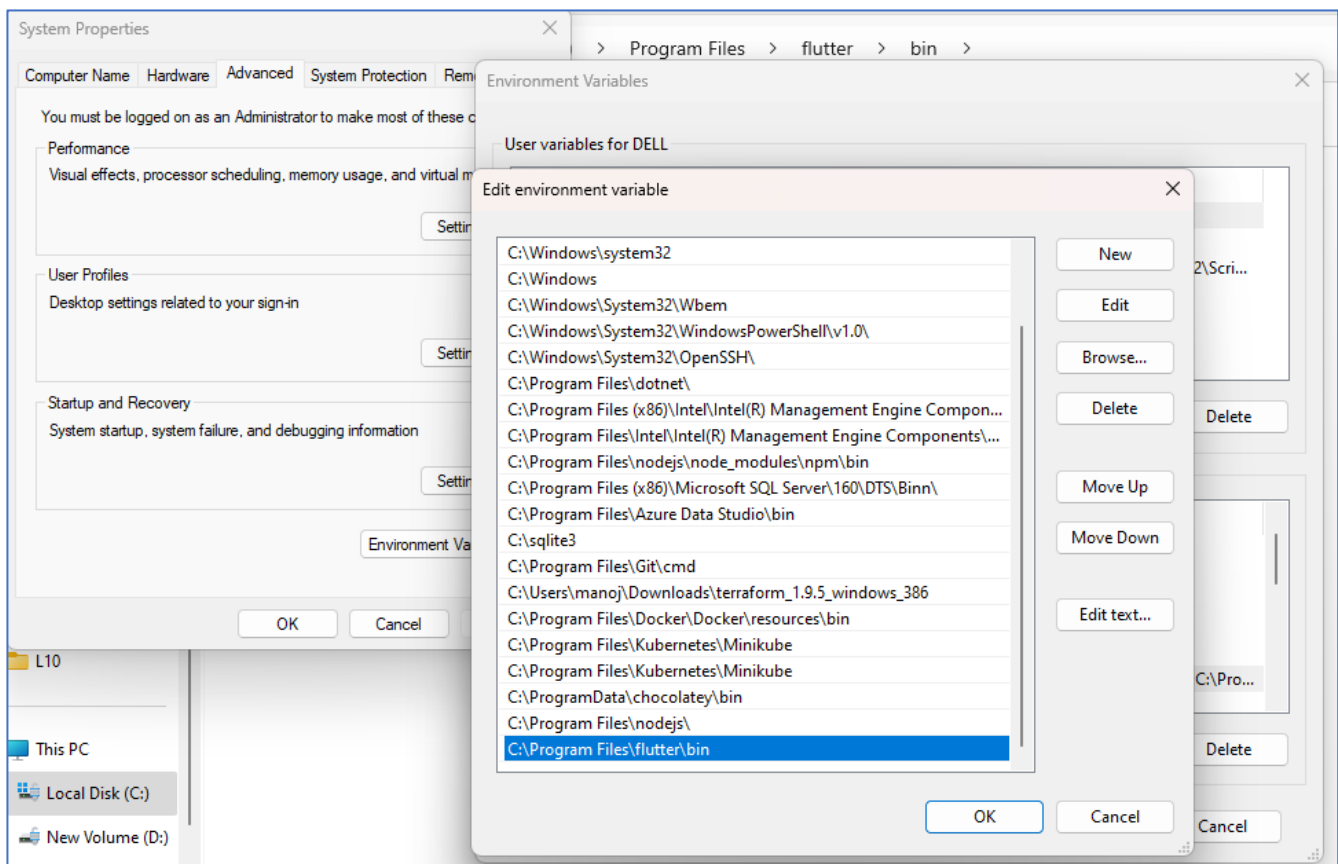
Experiment 1 : Installation of flutter.

1. Download flutter SDK and extract the zip file to a directory:

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



2. Copy the bin path in Flutter folder and add it to environment variables.



3. Verify installation by running "flutter doctor".

```
Microsoft Windows [Version 10.0.22631.4751]
(c) Microsoft Corporation. All rights reserved.
```

```
C:\Windows\System32>flutter doctor
```

```
A new version of Flutter is available!
```

```
To update to the latest version, run "flutter upgrade".
```

```
Welcome to Flutter! - https://flutter.dev
```

```
The Flutter tool uses Google Analytics to anonymously report feature usage
statistics and basic crash reports. This data is used to help improve
Flutter tools over time.
```

```
Flutter tool analytics are not sent on the very first run. To disable
reporting, type 'flutter config --no-analytics'. To display the current
setting, type 'flutter config'. If you opt out of analytics, an opt-out
event will be sent, and then no further information will be sent by the
Flutter tool.
```

```
By downloading the Flutter SDK, you agree to the Google Terms of Service.
The Google Privacy Policy describes how data is handled in this service.
```

```
Moreover, Flutter includes the Dart SDK, which may send usage metrics and
crash reports to Google.
```

```
Read about data we send with crash reports:
https://flutter.dev/to/crash-reporting
```

```
See Google's privacy policy:
https://policies.google.com/privacy
```

```
To disable animations in this tool, use
'flutter config --no-cli-animations'.
```

```
C:\Windows\System32>flutter doctor
```

```
Doctor summary (to see all details, run flutter doctor -v):
```

```
[✓] Flutter (Channel stable, 3.27.3, on Microsoft Windows [Version 10.0.22631.4751], locale en-IN)
```

```
[✓] Windows Version (Installed version of Windows is version 10 or higher)
```

```
[X] Android toolchain - develop for Android devices
```

```
    X Unable to locate Android SDK.
```

```
      Install Android Studio from: https://developer.android.com/studio/index.html
```

```
      On first launch it will assist you in installing the Android SDK components.
```

```
      (or visit https://flutter.dev/to/windows-android-setup for detailed instructions).
```

```
      If the Android SDK has been installed to a custom location, please use
```

```
      `flutter config --android-sdk` to update to that location.
```

```
[✓] 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 (not installed)
```

```
[✓] VS Code (version 1.97.1)
```

```
[✓] Connected device (3 available)
```

```
[✓] Network resources
```

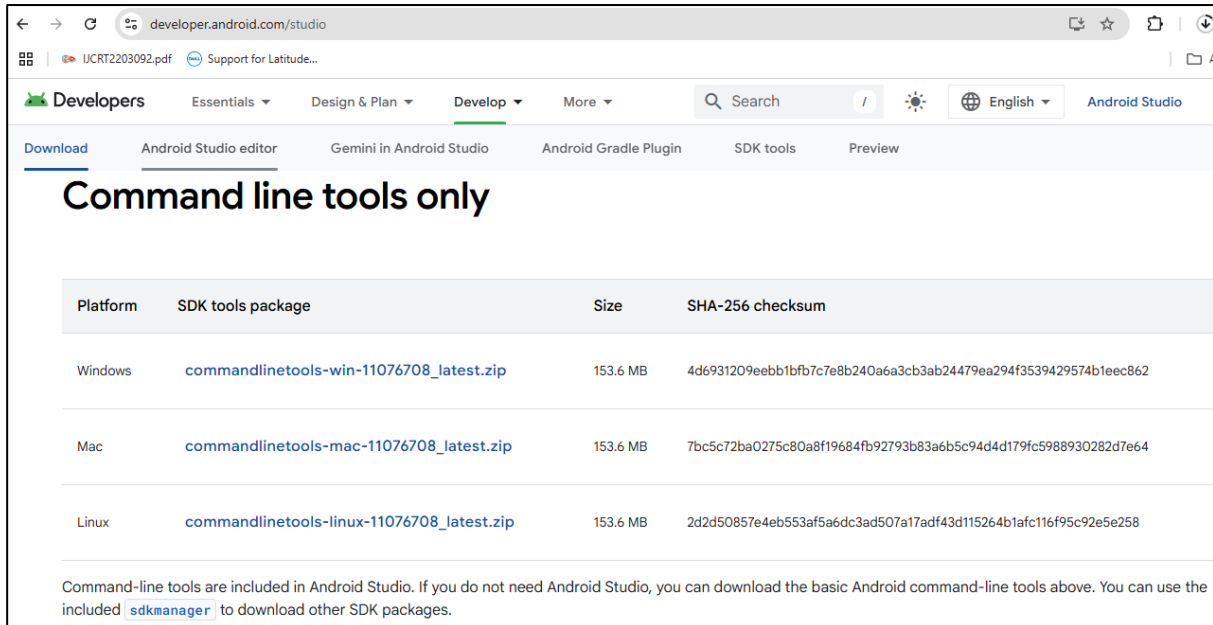
```
! Doctor found issues in 3 categories.
```

4. Install Android SDK Command line tools from

<https://developer.android.com/studio>

Download the zip file and extract it to specified folder

Also add the bin path of android sdk to environment variables.



Command line tools only

Platform	SDK tools package	Size	SHA-256 checksum
Windows	commandlinetools-win-11076708_latest.zip	153.6 MB	4d6931209eebb1bfb7c7e8b240a6a3cb3ab24479ea294f3539429574b1eec862
Mac	commandlinetools-mac-11076708_latest.zip	153.6 MB	7bc5c72ba0275c80a8f19684fb92793b83a6b5c94d4d179fc5988930282d7e64
Linux	commandlinetools-linux-11076708_latest.zip	153.6 MB	2d2d50857e4eb553af5a6dc3ad507a17adf43d115264b1afc116f95c92e5e258

Command-line tools are included in Android Studio. If you do not need Android Studio, you can download the basic Android command-line tools above. You can use the included [sdkmanager](#) to download other SDK packages.

5. Run CMD as administrator and install essential SDK components:

cd "C:\Program Files\Android SDK\cmdline-tools\latest\bin"

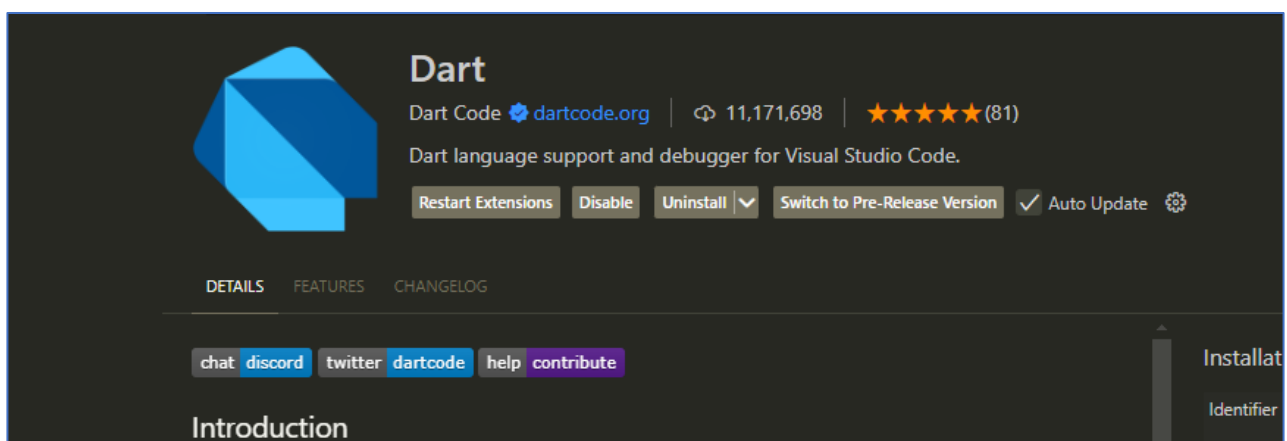
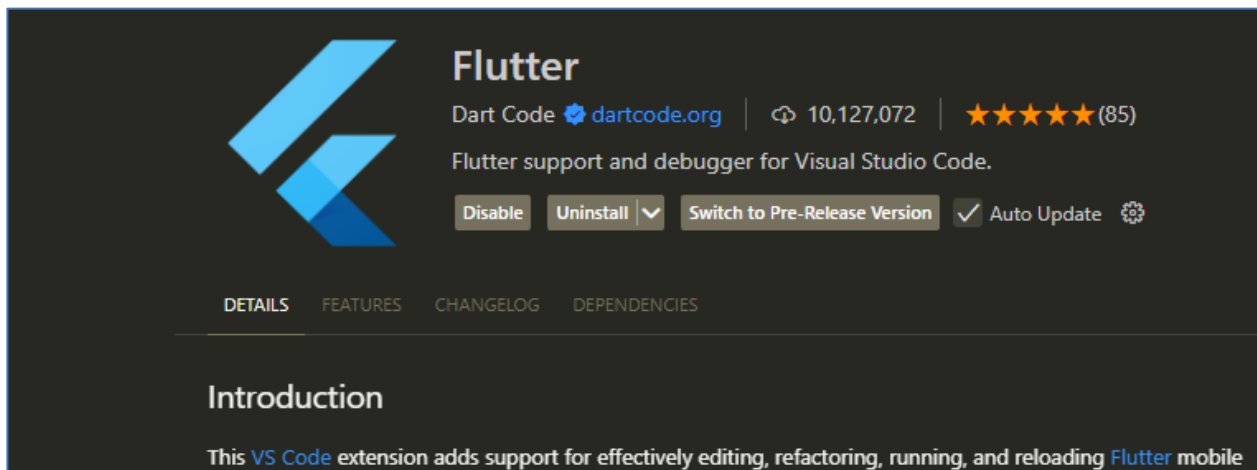
sdkmanager --install "platform-tools" "platforms;android-34" "build-tools;34.0.0" "emulator"

```
C:\Windows\System32>sdkmanager --install "platform-tools" "platforms;android-34" "build-tools;34.0.0" "emulator"
Warning: Errors during XML parse:
Warning: Additionally, the fallback loader failed to parse the XML.
Warning: Errors during XML parse:
Warning: Additionally, the fallback loader failed to parse the XML.
License android-sdk-license: [ 100% Computing updates...
-----
Terms and Conditions
```

```
14.7 The License Agreement, and your relationship with Google under the License Ag
s conflict of laws provisions. You and Google agree to submit to the exclusive jur
e any legal matter arising from the License Agreement. Notwithstanding this, you a
lent type of urgent legal relief) in any jurisdiction.

January 16, 2019
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Accept? (y/N): Y
[=====] 100% Unzipping... platform-tools/sqlit
C:\Windows\System32>
```

6. Install Flutter and Dart plugin in vs code studio.



Check all the issues of flutter doctor have been resolved

```
C:\Windows\System32>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.27.3, on Microsoft Windows [Version 10.0.22631.4751], 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)
    ! Some Android licenses not accepted. To resolve this, run: flutter doctor --android-licenses
[✓] Chrome - develop for the web
[✓] Visual Studio - develop Windows apps (Visual Studio Community 2022 17.13.0)
[!] Android Studio (not installed)
[✓] VS Code (version 1.97.1)
[✓] Connected device (3 available)
[✓] Network resources

! Doctor found issues in 2 categories.
```

Now run this command to create a flutter app and then run

“cd my_flutter_app”

```
PS D:\MPL Lab> flutter create my_flutter_app
Creating project my_flutter_app...
Resolving dependencies in `my_flutter_app`... (1.7s)
Downloading packages...
Got dependencies in `my_flutter_app`.
Wrote 130 files.

All done!
You can find general documentation for Flutter at: https://docs.flutter.dev/
Detailed API documentation is available at: https://api.flutter.dev/
If you prefer video documentation, consider: https://www.youtube.com/c/flutterdev

In order to run your application, type:

$ cd my_flutter_app
$ flutter run

Your application code is in my_flutter_app\lib\main.dart.
```

In the directory structure go to lib folder and write the below code in “main.dart” file.

Code:

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

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

```
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      home: Scaffold(
        appBar: AppBar(title: Text('Flutter Demo')),
        body: Center(
          child: Text(
```

```
'Hello Rohan',  
style: TextStyle(fontSize: 24, fontWeight: FontWeight.bold),  
),  
,  
,  
);  
}  
}
```

Output:

