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Lab - MPL

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Project No. 1

### Objective :-

The primary objective of this Huxer App is to provide users with a seamless and efficient way to convert media files from one format to another. This app eliminates such barriers by simple yet powerful ~~media~~ media conversion tool.

By Integrating the open-source FFmpeg library, the app will leverage its robust ~~and~~ encoding, decoding to handle a wide range of media formats.

### Features :-

- 1) Support for multiple formats - MP4, MP3, MKV etc.
- 2) Batch conversion
- 3) Customizable output settings
- 4) Fast processing with FFmpeg
- 5) Minimalistic & intuitive UI
- 6) ~~Background~~ Background processing.
- 7) File Management & history.
- 8) preview before conversion
- 9) Cloud store for backup.

playstore ref link :- [play.google.com/store/apps/details?id=com.Android-MediaConverter](https://play.google.com/store/apps/details?id=com.Android-MediaConverter)





# Vivekanand Education Society's Institute of Technology

(An Autonomous Institute Affiliated to University of Mumbai)

## Department of Information Technology

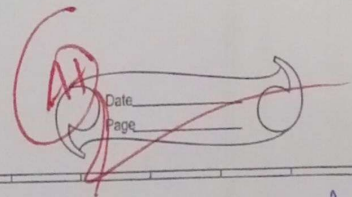
A.Y. 24-25

### Mobile App Development and Progressive Web App

Experiment No.	01
Experiment Title.	To install and configure the Flutter Environment.
Roll No.	08
Name	Abhishek Chaurasiya
Class	D15 B
Subject	MAD & PWA
Grade:	(A) ✓

Abhishek R. Choudhita

DISB-08



## Experiment 1

### Installation and configuration of flutter environment

Aim :- To install and configure the flutter environment for cross-platform mobile development

Steps:-

- 1) Download Flutter :- visit flutter.dev and download the latest SDK
- 2) Setup Environment Variables:
  - ~~Windows~~ Windows : Add C:\src\flutter\bin to the system path
- 3) Verify installation
  - Open terminal  
flutter doctor
- 4) Set up an editor:
  - install Android Studio or VS Code
- 5) Create and run a flutter project

Conclusion:

The flutter environment was successfully installed and configured, enabling cross-platform mobile app development.



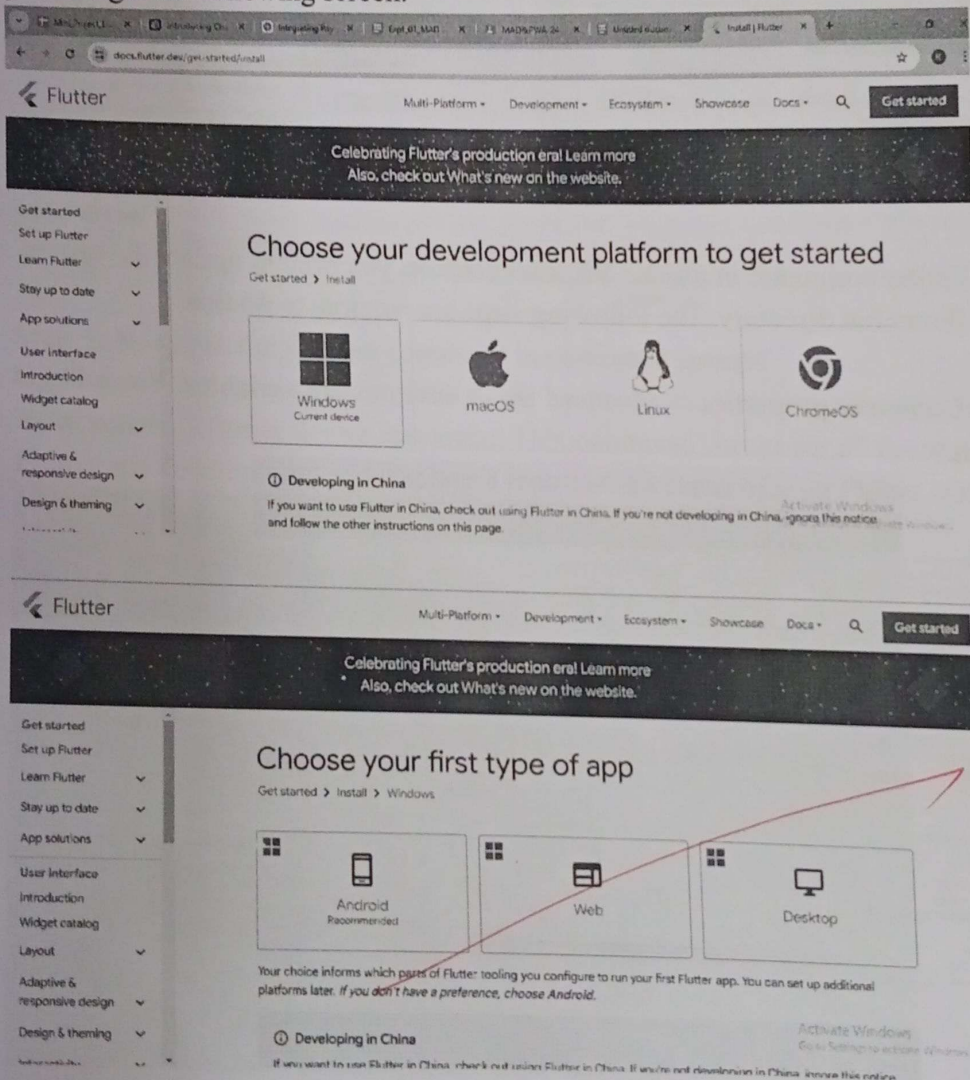
Name: Abhishek Chaurasiya

Roll No:08

Div: D15B

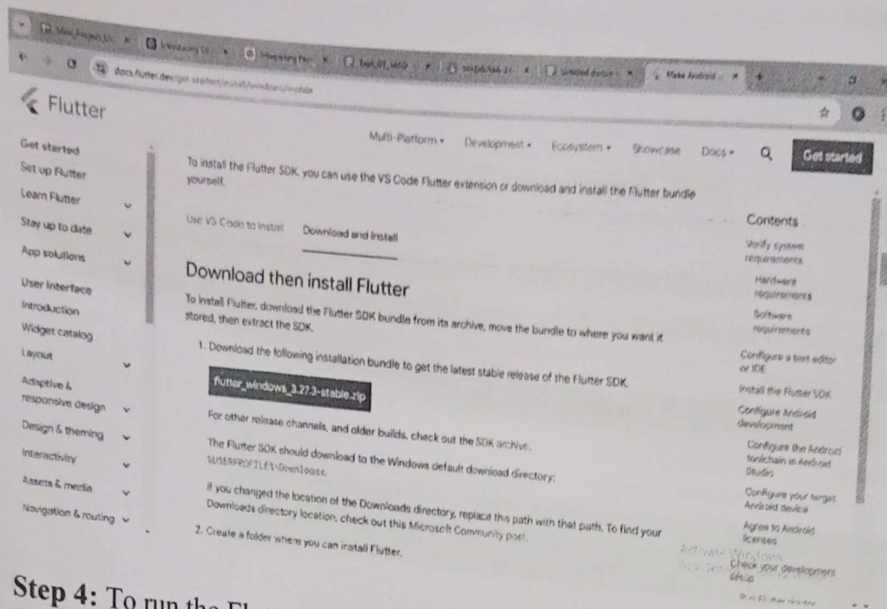
## MPL Experiment No.1

**Step 1:** Download the installation bundle of the Flutter Software Development Kit for windows. To download Flutter SDK, Go to its official website <https://docs.flutter.dev/get-started/install>, you will get the following screen.



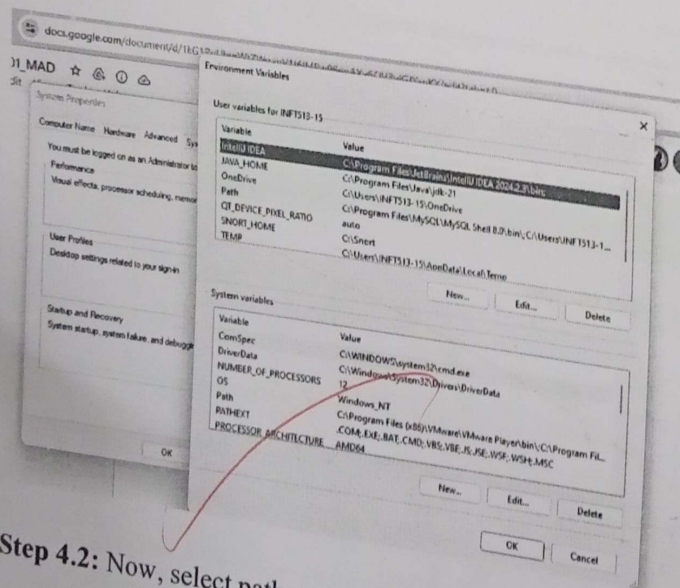
**Step 2:** Next, to download the latest Flutter SDK, click on the Windows icon. Here, you will find the download link for SDK.

**Step 3:** When your download is complete, extract the zip file and place it in the desired installation folder or location, for example, C: /Flutter.



**Step 4:** To run the Flutter command in regular windows console, you need to update the system path to include the flutter bin directory. The following steps are required to do this:

**Step 4.1:** Go to MyComputer properties -> advanced tab -> environment variables. You will get the following screen.



**Step 4.2:** Now, select path -> click on edit. The following screen appears

**Step 4.3:** In the above screen, click on New->write path of Flutter bin folder in variable value > ok -> ok -> ok



Edit environment variable

X

```
%SystemRoot%\system32
%SystemRoot%
%SystemRoot%\system32\Wbem
%SYSTEMROOT%\system32\WindowsPowerShell\v1.0\
%SYSTEMROOT%\system32\OpenSSH\
C:\Program Files\nodejs\
C:\Program Files\Microsoft SQL Server\120\DTS\Binn\
C:\Program Files\Microsoft SQL Server\Client SDK\ODBC\110\Tool...
C:\Program Files (x86)\Microsoft SQL Server\120\Tools\Binn\
C:\Program Files\Microsoft SQL Server\120\Tools\Binn\
C:\Program Files (x86)\Microsoft SQL Server\120\Tools\Binn\Man...
C:\Program Files (x86)\Microsoft SQL Server\120\DTS\Binn\
C:\Program Files\mingw32\bin
C:\Program Files\Docker\Docker\resources\bin
C:\Program Files\Java\jdk-21\bin
C:\Users\student\Desktop\Flutter\bin
C:\Program Files\Amazon\AWSCLIV2\
C:\Program Files\MySQL\MySQL Server 8.0\bin
C:\Program Files\Git\cmd
C:\Flutter\bin
```

New

Edit

Browse...

Delete

Move Up

Move Down

Edit text...

OK

Cancel

**Step 5:** Now, run the \$ flutter command in command prompt.

Now, run the \$ flutter doctor command. This command checks for all the requirements of Flutter app development and displays a report of the status of your Flutter installation.

```
Command Prompt - Flutter - X
Microsoft Windows [Version 10.0.22631.4781]
(c) Microsoft Corporation. All rights reserved.

C:\Users\student>Flutter --version

A new version of Flutter is available!
To update to the latest version, run "flutter upgrade".

Flutter 3.27.2 • channel stable • https://github.com/flutter/flutter.git
Framework • revision 68015ad1d9 (2 weeks ago) • 2025-01-13 10:22:03 -0800
Engine • revision e672b806cb
Tools • Dart 3.6.1 • DevTools 2.40.2

C:\Users\student>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.
```

**Step 6:** When you run the above command, it will analyze the system and show its report, as shown in the below image. Here, you will find the details of all missing tools, which required to run Flutter as well as the development tools that are available but not connected with the device.

```

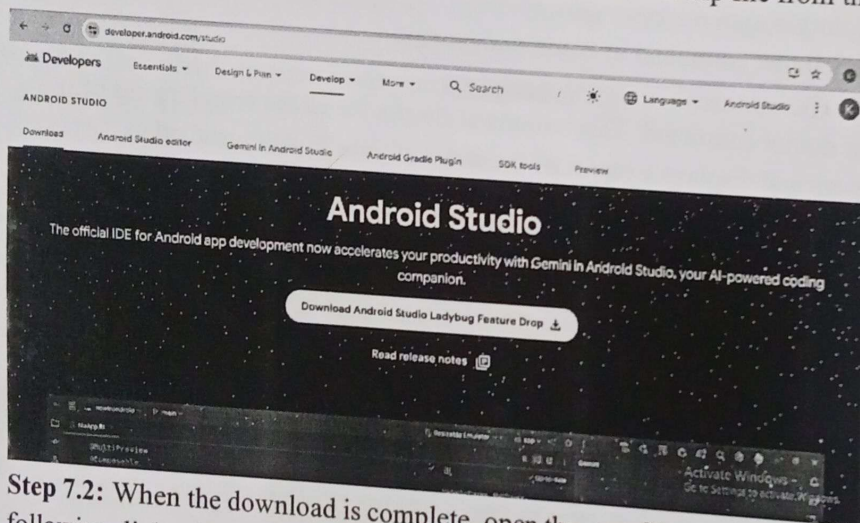
C:\Users\student>Flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.27.2, on Microsoft Windows [Version 10.0.22631.4751], locale en-IN)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[✓] Android toolchain - develop for Android devices (Android SDK version 34.0.0)
    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/to/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 1.96.4)
[✓] Connected device (3 available)
[✓] Network resources

! Doctor found issues in 2 categories.
C:\Users\student>

```

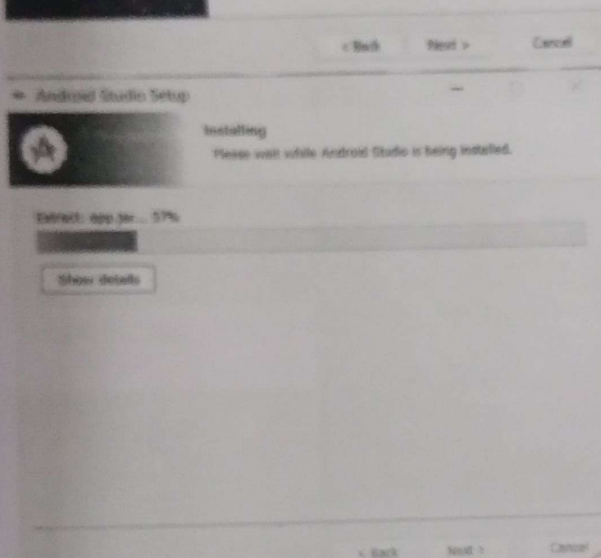
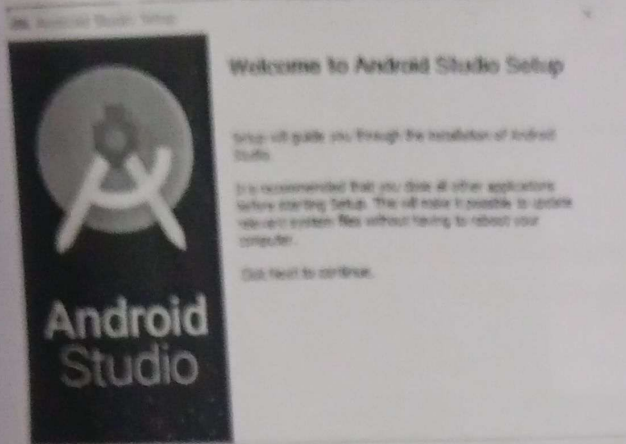
**Step 7:** Install the Android SDK. If the flutter doctor command does not find the Android SDK tool in your system, then you need first to install the Android Studio IDE. To install Android Studio IDE, do the following steps.

**Step 7.1:** Download the latest Android Studio executable or zip file from the official site.



**Step 7.2:** When the download is complete, open the .exe file and run it. You will get the following dialog box





**Step 7.3:** Follow the steps of the installation wizard. Once the installation wizard completes, you will get the following screen.

