

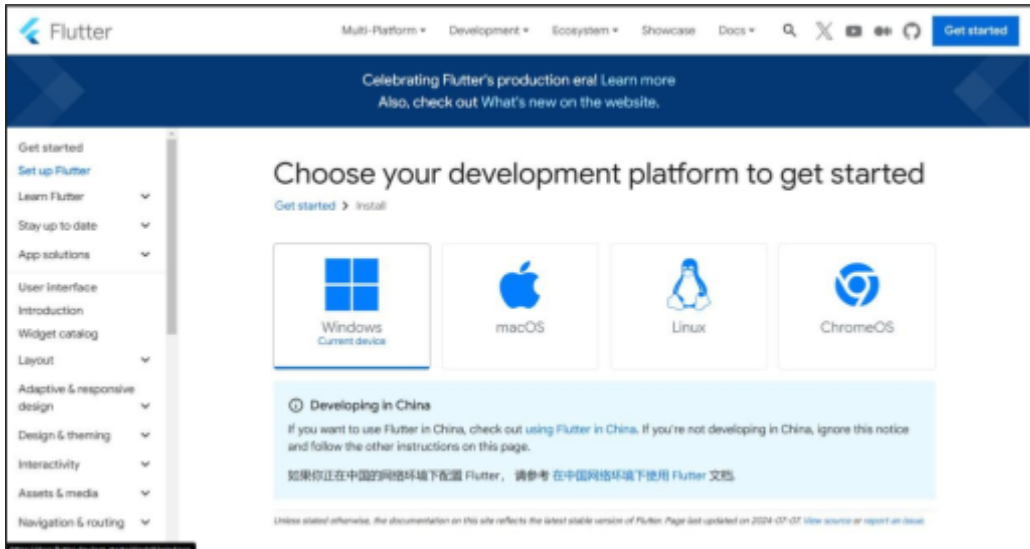
**MAD & PWA Lab Journal**

Experiment No.	01
Experiment Title.	To install and configure the Flutter Environment
Roll No.	37
Name	Shravani Anil Patil
Class	D15A
Subject	MAD & PWA Lab
Lab Outcome	LO1: Understand cross platform mobile application development using Flutter framework
Grade:	

## AIM : Installation and Configuration of Flutter Environment.

### Step 1: Install Flutter : Download Flutter SDK:

- Go to the Flutter website.
- Download the Flutter SDK for your operating system



### Step 2: Extract Flutter SDK: Extract the downloaded .zip file to your desired directory

### Step 3: Add Flutter to PATH

- Search for "Environment Variables" in the Start menu.
- Under System Properties → Advanced → Environment Variables, find the Path variable under "System Variables."
- Add the Flutter SDK's bin directory (e.g., C:\flutter\bin) to the PATH.

User

Edit environment variable

✕

Va

GH

Int

Int

M

Or

Pa

scr

System

Va

C:\

Co

Dr

git

JA

NU

Or

Co

%USERPROFILE%\AppData\Local\Microsoft\WindowsApps

%IntelliJ IDEA Educational Edition%

%IntelliJ IDEA Community Edition%

C:\Users\shrav\AppData\Local\GitHubDesktop\bin

C:\Program Files\Azure Data Studio\bin

C:\ghcup\bin

C:\Users\shrav\AppData\Roaming\npm

C:\Users\shrav\OneDrive\Documents\.vsconfig

C:\Users\shrav\AppData\Local\Programs\Microsoft VS Code\...

C:\terraform

C:\Users\shrav\AppData\Local\Android\Sdk

%USERPROFILE%\dotnet\tools

C:\Users\shrav\AppData\Roaming\Python\Python310-32\Scri...

C:\Users\shrav\Downloads\chromedriver-win32\chromedrive...

C:\Users\shrav\AppData\Local\Programs\Python\Python310

C:\Users\shrav\AppData\Local\Programs\Python\Python310

C:\Users\shrav\AppData\Local\Programs\Python\Python310\...

C:\Users\shrav\AppData\Local\Programs\Python\Python310-...

C:\Users\shrav\AppData\Local\Programs\Python\Python310

C:\Program Files\Tesseract-OCR

C:\Users\shrav\Downloads\flutter\flutter\bin

New

Edit

Browse...

Delete

Move Up

Move Down

Edit text...

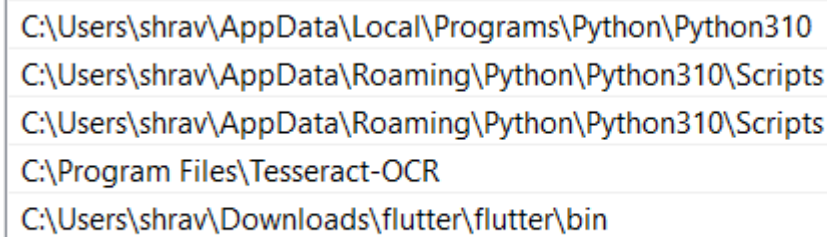
OK

Cancel

OK

Cancel

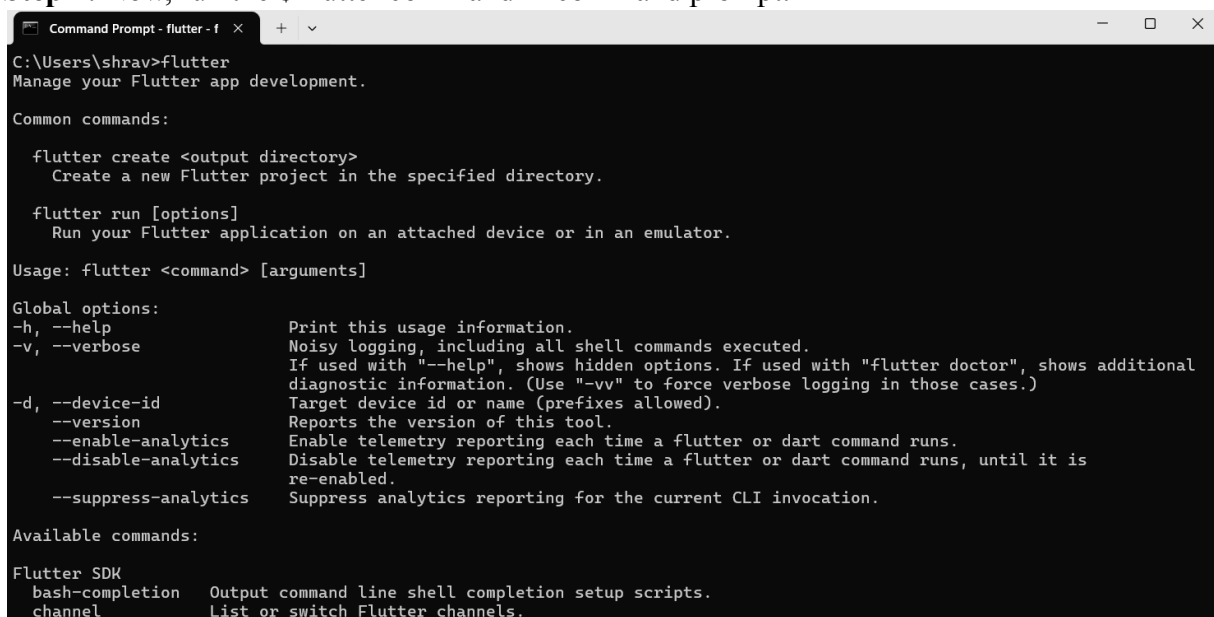
Now, select path -> click on edit. The following screen appears



C:\Users\shrav\AppData\Local\Programs\Python\Python310  
C:\Users\shrav\AppData\Roaming\Python\Python310\Scripts  
C:\Users\shrav\AppData\Roaming\Python\Python310\Scripts  
C:\Program Files\Tesseract-OCR  
C:\Users\shrav\Downloads\flutter\flutter\bin

In the above window, click on New->write path of Flutter bin folder in variable value -> ok -> ok -> ok.

**Step 4:** Now, run the \$ flutter command in command prompt.



```
Command Prompt - flutter - f
C:\Users\shrav>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]

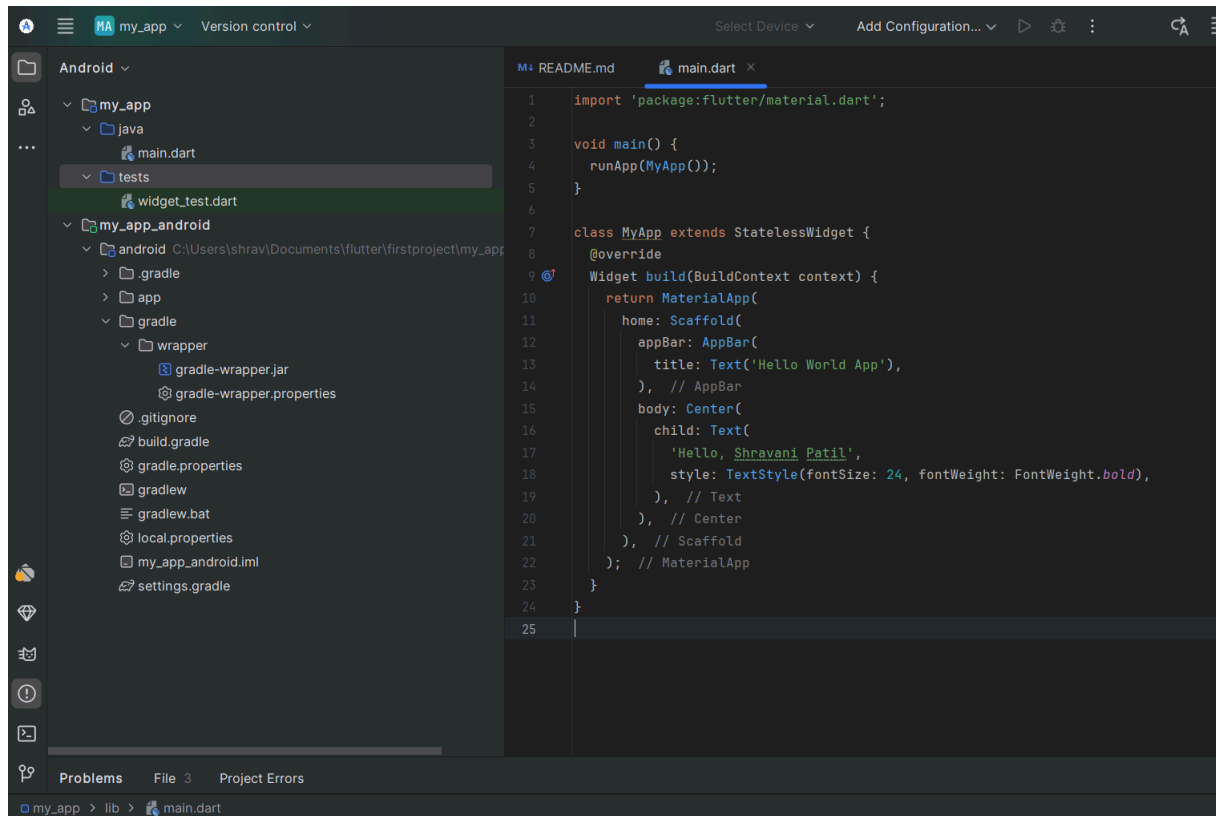
Global options:
-h, --help                Print this usage information.
-v, --verbose              Noisy logging, including all shell commands executed.
                           If used with "--help", shows hidden options. If used with "flutter doctor", shows additional
                           diagnostic information. (Use "-vv" to force verbose logging in those cases.)
-d, --device-id            Target device id or name (prefixes allowed).
--version                 Reports the version of this tool.
--enable-analytics         Enable telemetry reporting each time a flutter or dart command runs.
--disable-analytics       Disable telemetry reporting each time a flutter or dart command runs, until it is
                           re-enabled.
--suppress-analytics       Suppress analytics reporting for the current CLI invocation.

Available commands:

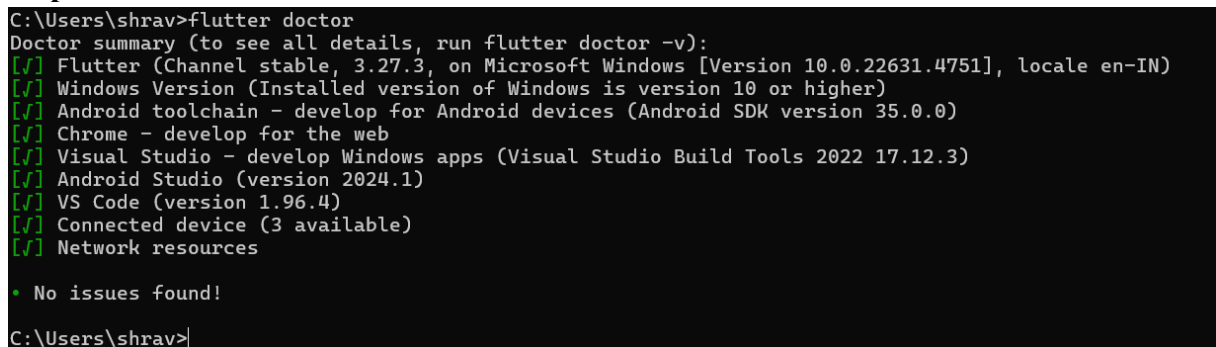
Flutter SDK
  bash-completion  Output command line shell completion setup scripts.
  channel          List or switch Flutter channels.
```

Flutter is installed successfully.

**Step 5:** 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.



**Step 6:** Run Flutter Doctor command

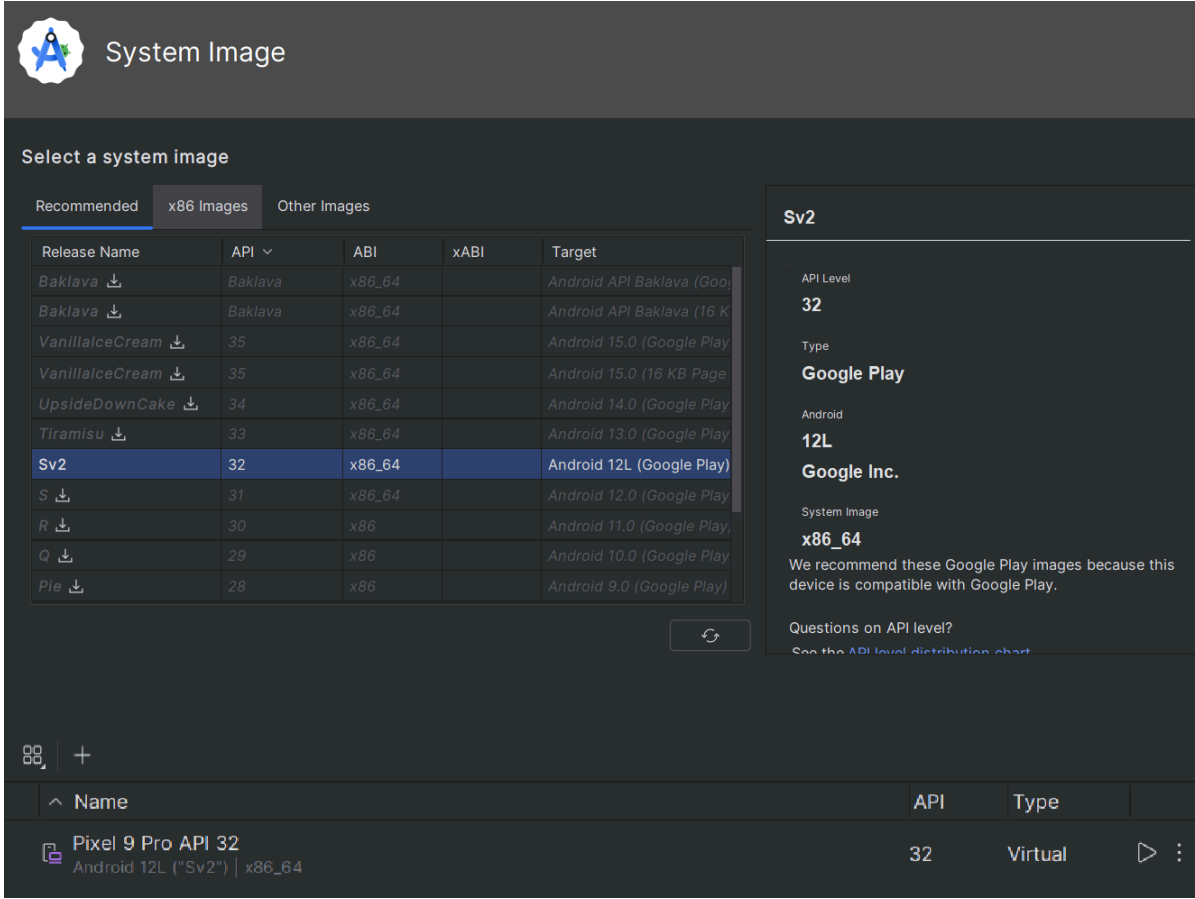
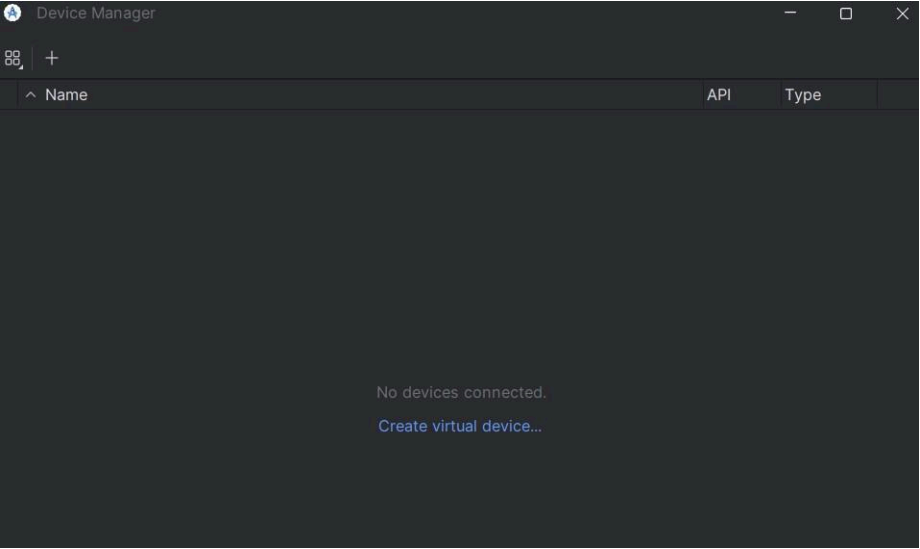


**Step 7:** Create a new virtual device

Choose your device definition and click on Next.

Select the system image for the latest Android version and click on Next.

Now, verify the all AVD configuration. If it is correct, click on Finish. The following screen appears.



Virtual device created.

Creating a hello world program in flutter:

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

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

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        appBar: AppBar(
          title: Text('Hello World App'),
        ),
        body: Center(
          child: Text(
            'Hello, Shravani Patil',
            style: TextStyle(fontSize: 24, fontWeight: FontWeight.bold),
          ),
        ),
      ),
    );
  }
}
```

