

APP DEVELOPMENT USING FLUTTER (01CE0610)

Lab Manual 2024-25

Name : Sonu Kumar

ER no. : 92201703096

Class : 6EC1 - A

Practical 1

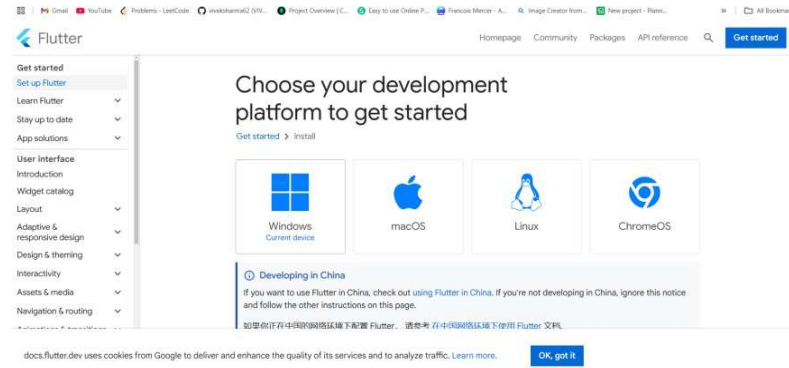
Aim : Android Studio setup for Flutter development with along with Dart SDK.

- **Step 1: Install Flutter SDK**

1. Download the latest Flutter SDK from the official Flutter website:

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

Screenshot:



2. Extract the downloaded ZIP file to a preferred location (e.g., C:\src\flutterfor Windows).

3. Add Flutter to the system path:

a. **Windows:** Add C:\flutter\bin to the system **Environment Variables**.

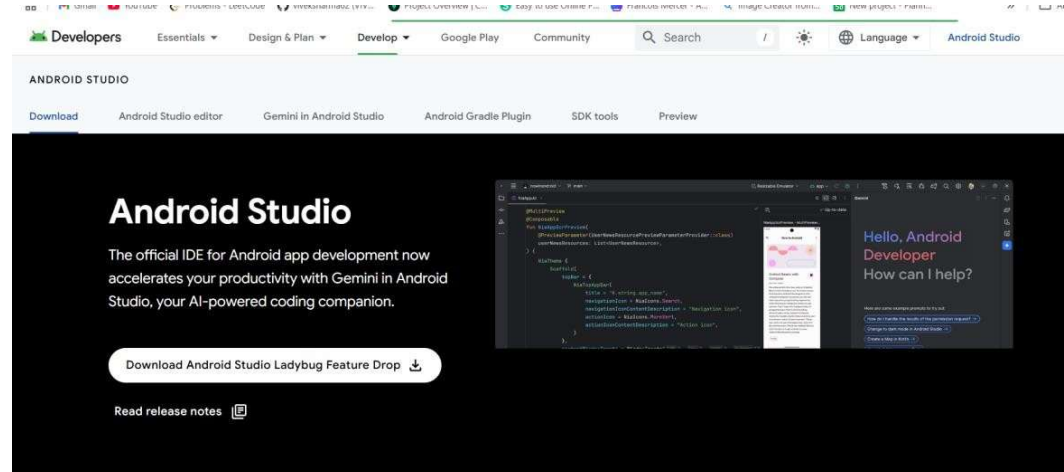
b. **Check Installation:**

Run the following command in the terminal: **flutter --version**

- **Step 2: Install Android Studio :**

1. Download and install Android Studio from: <https://developer.android.com/studio>

Screenshot:

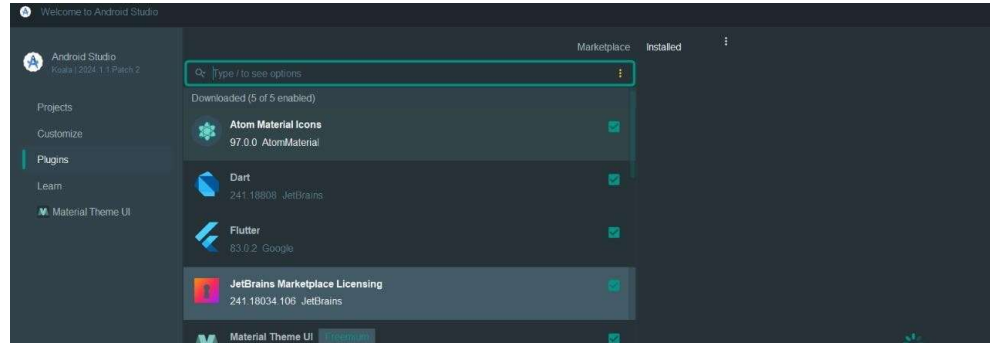


2. Open Android Studio and complete the setup wizard.

- **Step 3: Install Flutter & Dart Plugins:**

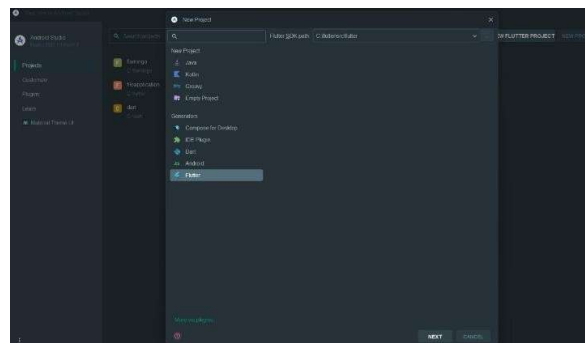
1. Open **Android Studio**.
2. Go to **File → Settings**
3. Navigate to **Plugins** and search for:
 - i. Flutter - click install
 - ii. Dart – click install
4. Restart Android studio.

Screenshot:

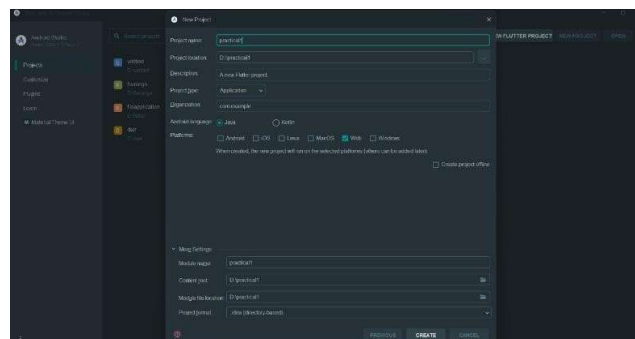


- **Step 4 : Create and Run a Flutter Project :**

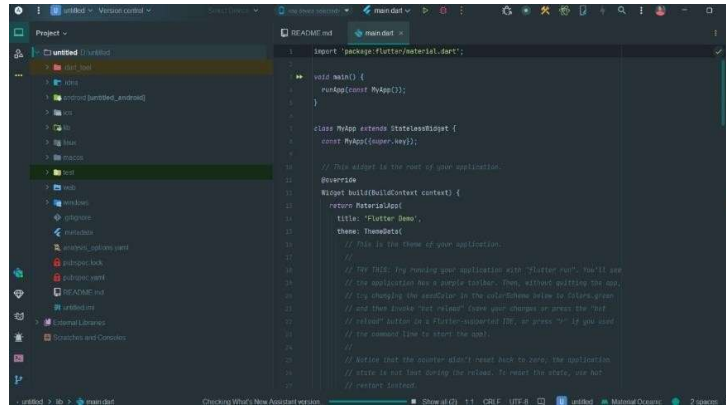
1. Open Android Studio.
2. Go to **File → New Flutter Project**.
3. Select Flutter Application.



4. Set the SDK path (e.g., C:\flutter).



5. Name your project and click Finish.



6. Run the app on an emulator or real device.



Practical 2

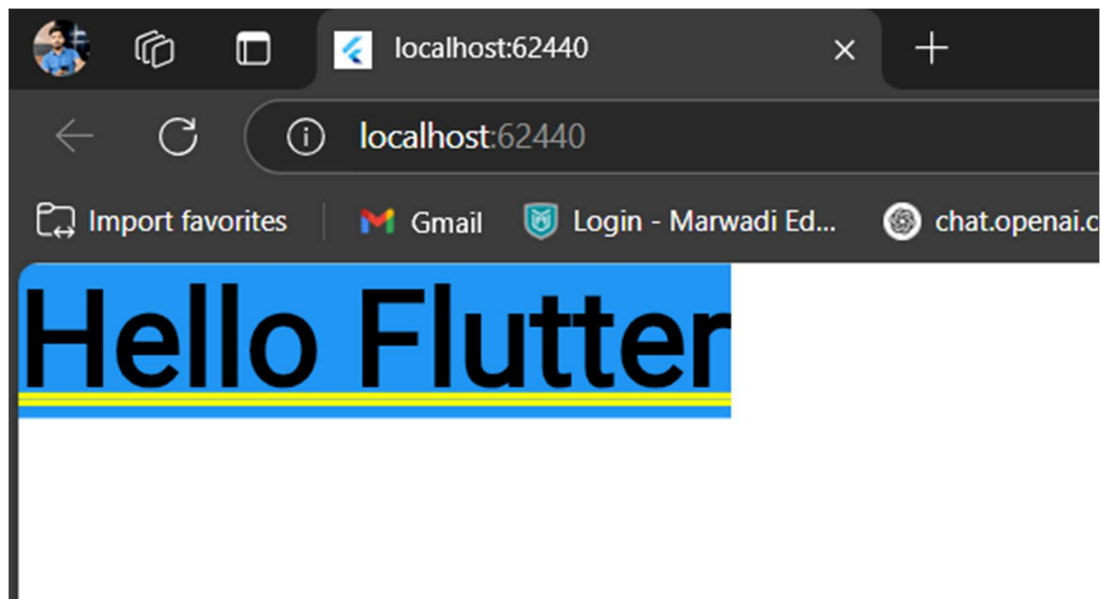
Aim : Create a Hello Flutter 'application.

Code:

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

```
void main() {  
  runApp(MaterialApp(  
    home: Text("Hello Flutter", style: TextStyle(color:  
Colors.black, fontSize: 56, backgroundColor: Colors.blue),),  
  ));  
}
```

Output:



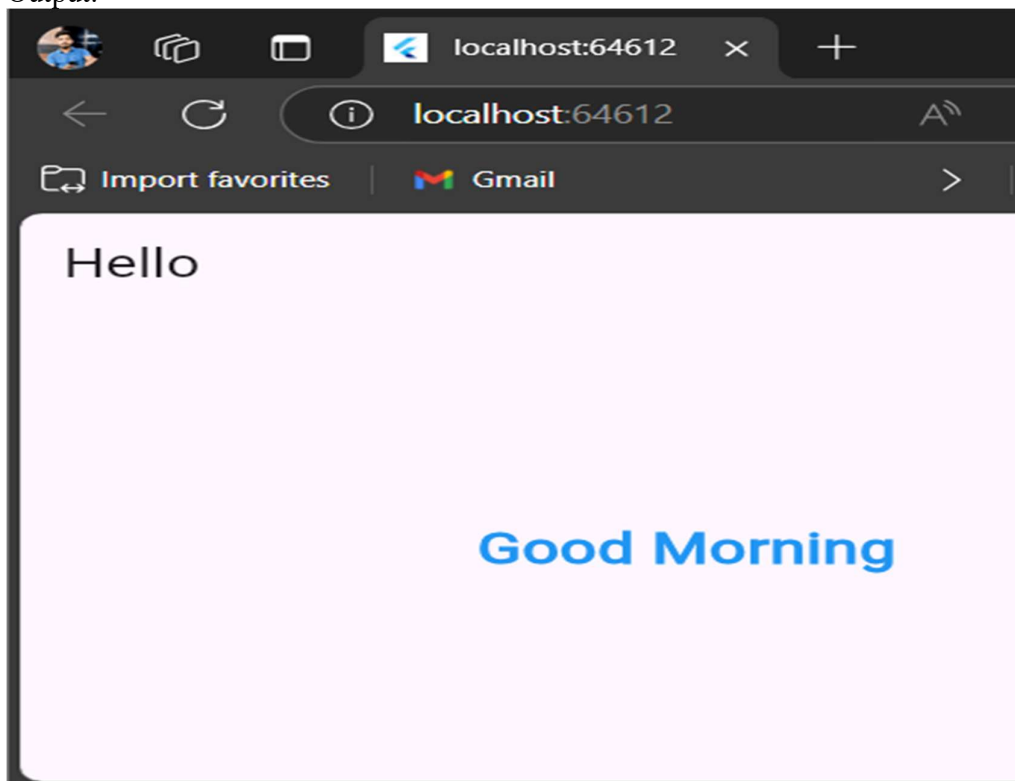
Practical 3

Aim: Create and application using Flutter Key Widgets

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

```
void main() {  
  runApp(const MyApp());  
}  
  
class MyApp extends StatelessWidget {  
  const MyApp({super.key});  
  
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      debugShowCheckedModeBanner: false, // Removes debug banner  
      home: Scaffold(  
        appBar: AppBar(  
          title: const Text('Hello'),  
        ),  
        body: const Center(  
          child: Text(  
            'Good Morning',  
            style: TextStyle(  
              fontSize: 24.0,  
              fontWeight: FontWeight.bold,  
              color: Colors.blue,  
            ),  
            overflow: TextOverflow.ellipsis,  
          ), ), ), );  
      );  
    );  
  }  
}
```

Output:





Practical 3 – B

Code:

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

void main() {
  runApp(MaterialApp(
    debugShowCheckedModeBanner: false, // Removes debug banner
    home: Scaffold(
      appBar: AppBar(
        title: const Text("Rohit"),
      ), // **Added missing parenthesis here**
      body: Center(
        child: Container(
          height: 200.0,
          width: 150.0,
          margin: const EdgeInsets.all(16.0),
          padding: const EdgeInsets.symmetric(horizontal: 40.0, vertical: 60.0),
          decoration: BoxDecoration(
            color: Colors.blue,
            borderRadius: BorderRadius.circular(20.0), // **Added rounded corners**
          ),
          child: const Center(
```



```
child: Text(
  "Hitman",
  style: TextStyle(color: Colors.white, fontSize: 18.0),
  textAlign: TextAlign.center,
```

```
), ), ), ), ), ));}
```

Output:

