Smart Device Programming

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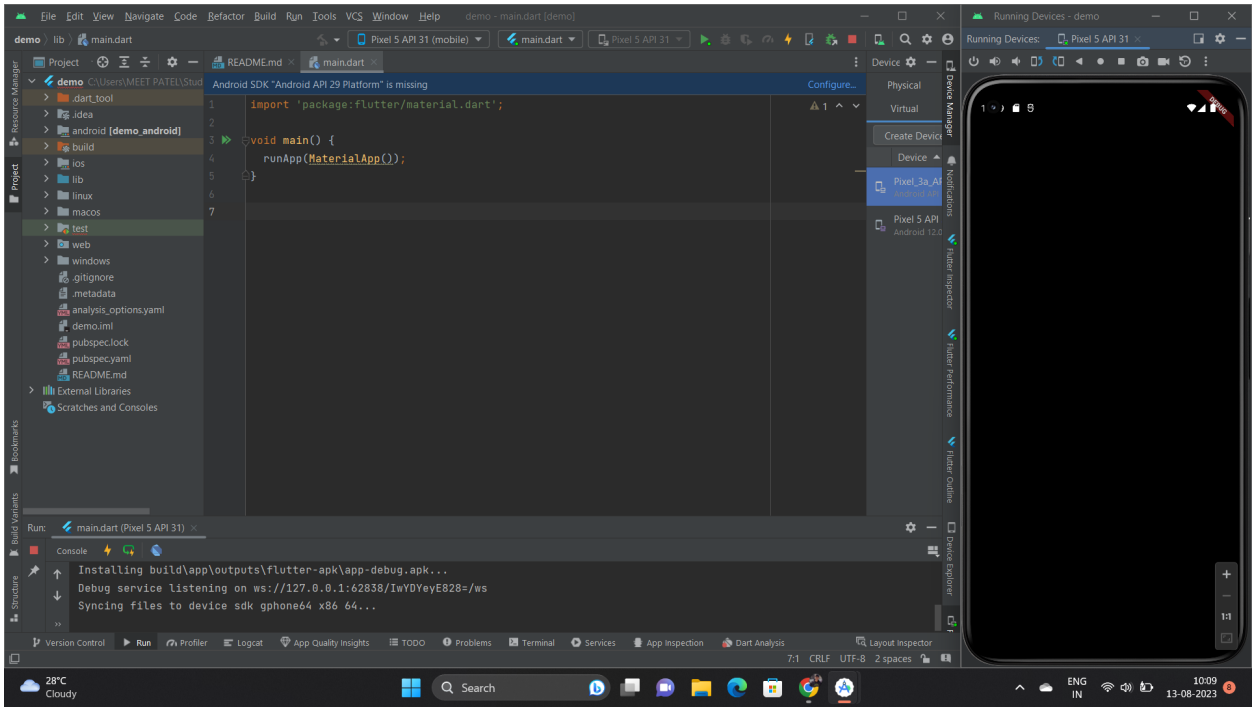
Roll No : CE013

ID No : 21CEUOS091

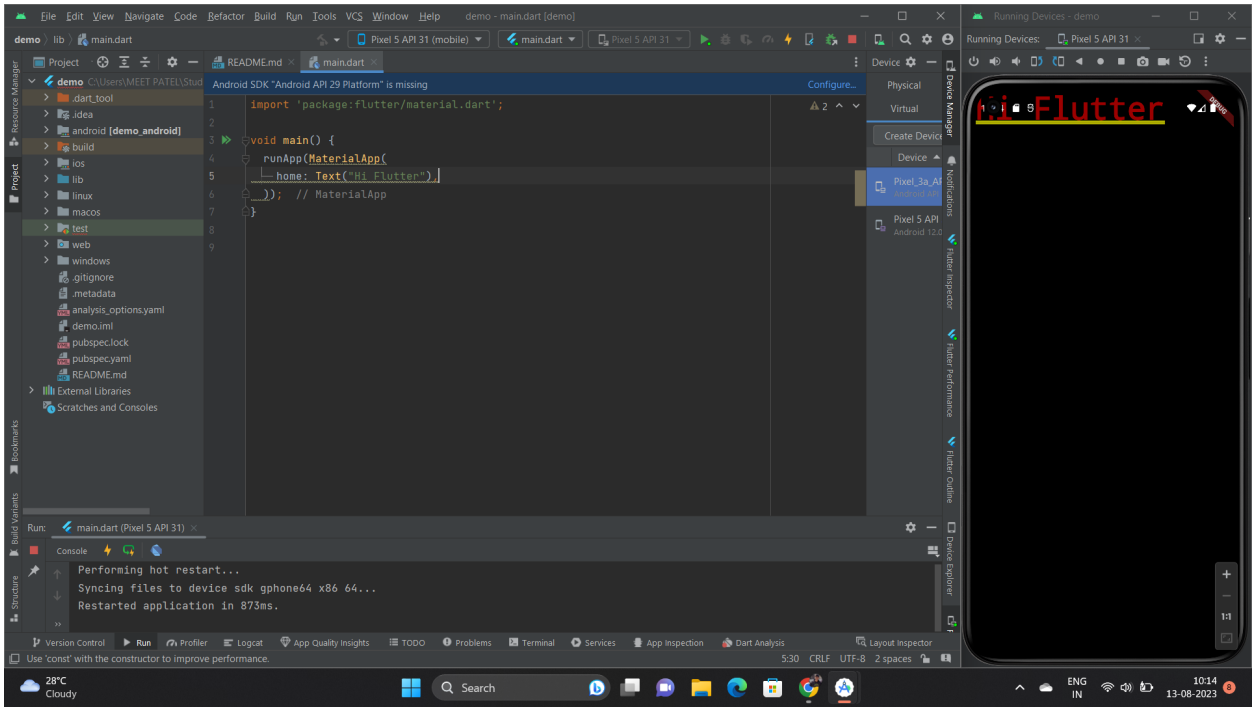
Lab No : 06

Topics : Flutter Basics

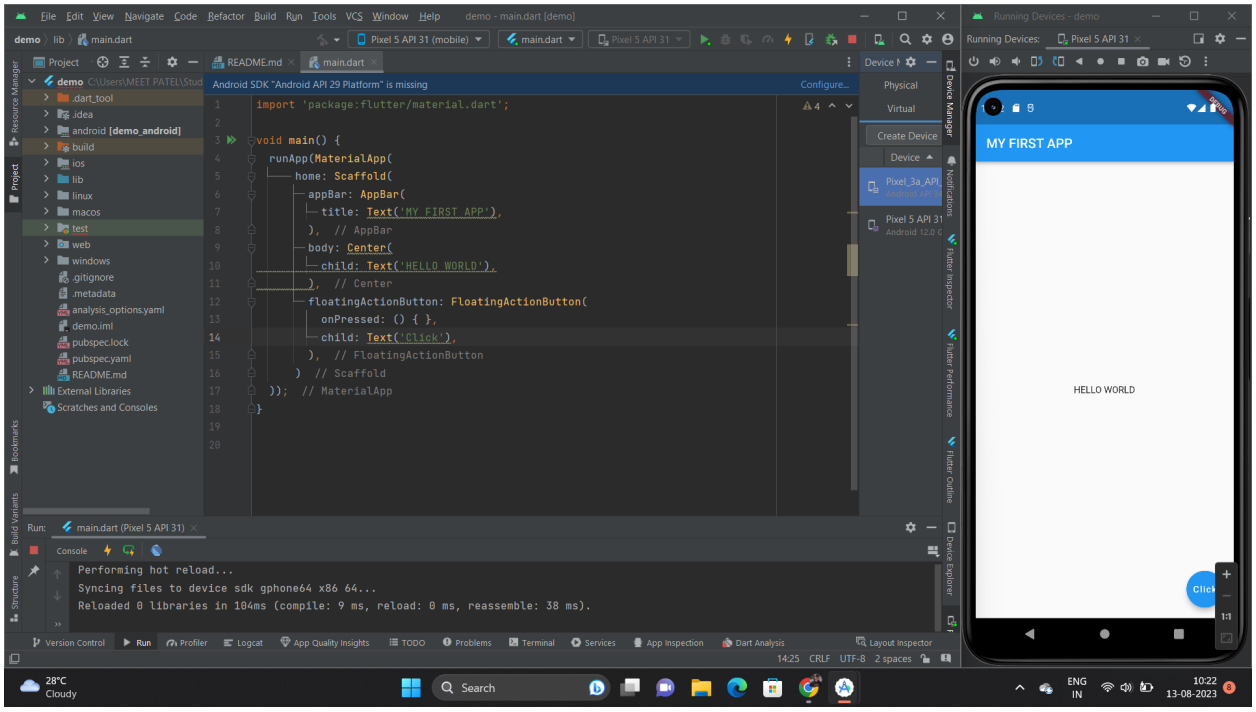
- Code Test 1 : Running empty main()



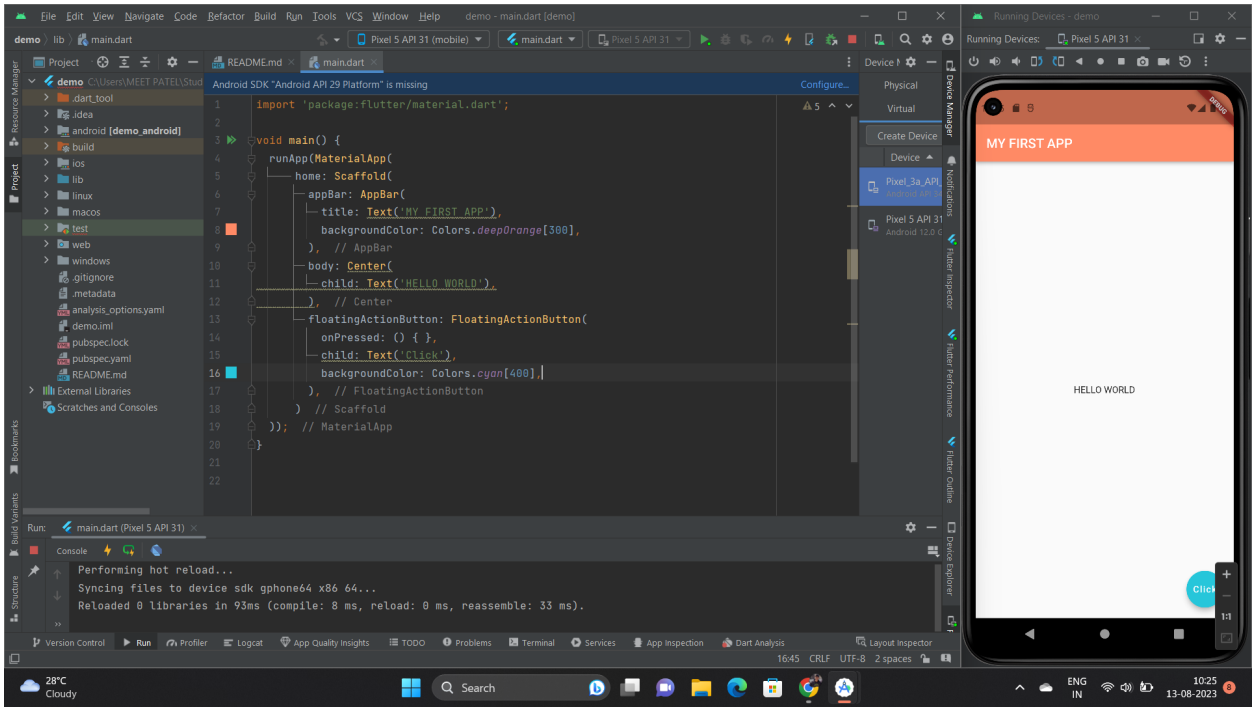
- Code Test 2 : Displaying Message on Screen



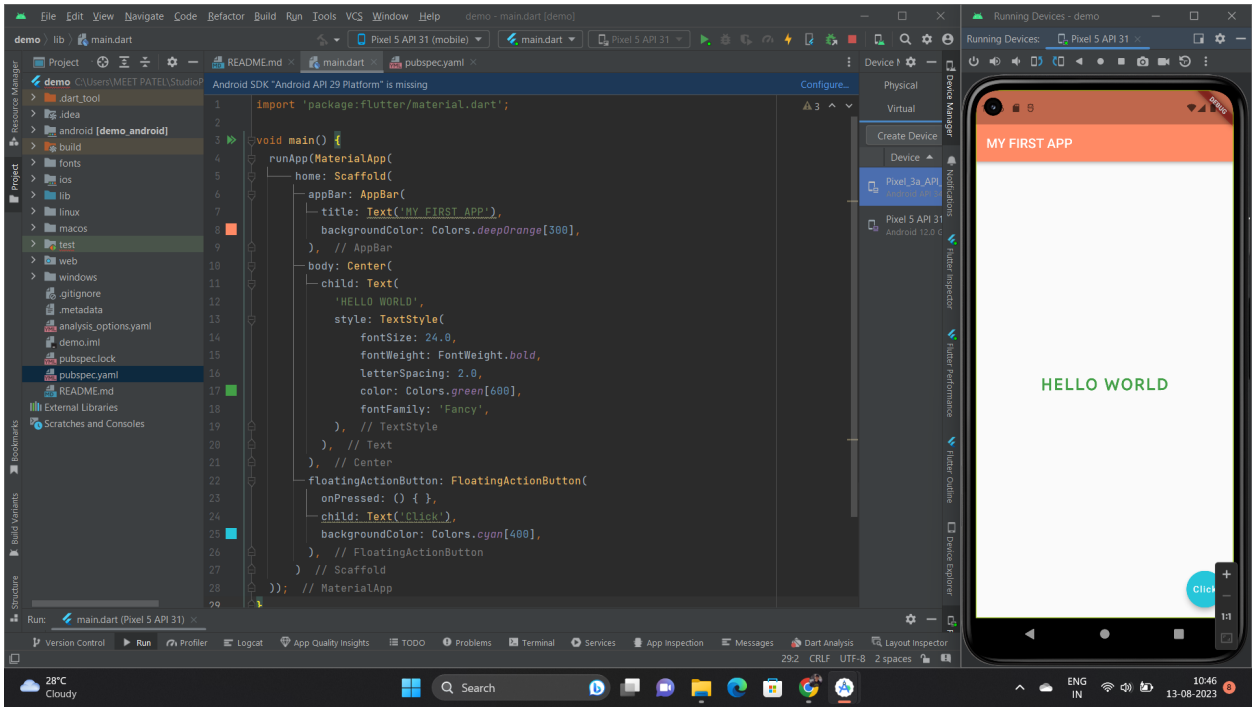
- Code Test 3 : Using Scaffold Widget



- Code Test 4 : Customization(Changing Background Colour)



- Test Code 5 : Inserting new Font

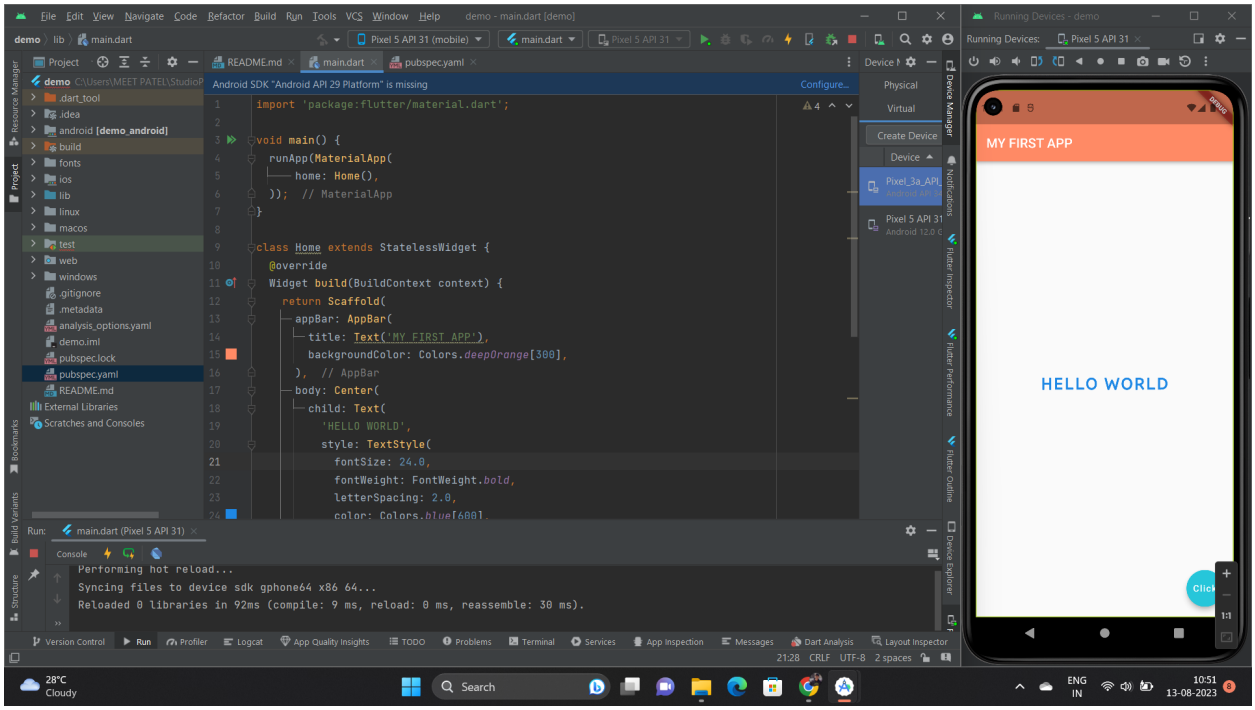


- Test Code 6 : Hot Reloading through Stateless Widget

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

void main() {
 runApp(MaterialApp(
     home: Home(),
 ));
}

class Home extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
   return Scaffold(
     appBar: AppBar(
       title: Text('MY FIRST APP'),
       backgroundColor: Colors.deepOrange[300],
     ),
     body: Center(
       child: Text(
         'HELLO WORLD',
         style: TextStyle(
           fontSize: 24.0,
           fontWeight: FontWeight.bold,
           letterSpacing: 2.0,
           color: Colors.blue[600],
           fontFamily: 'Fancy',
         ),
       ),
     ),
     floatingActionButton: FloatingActionButton(
       onPressed: () { },
       child: Text('Click'),
       backgroundColor: Colors.cyan[400],
     ),
   );
 }
}
```

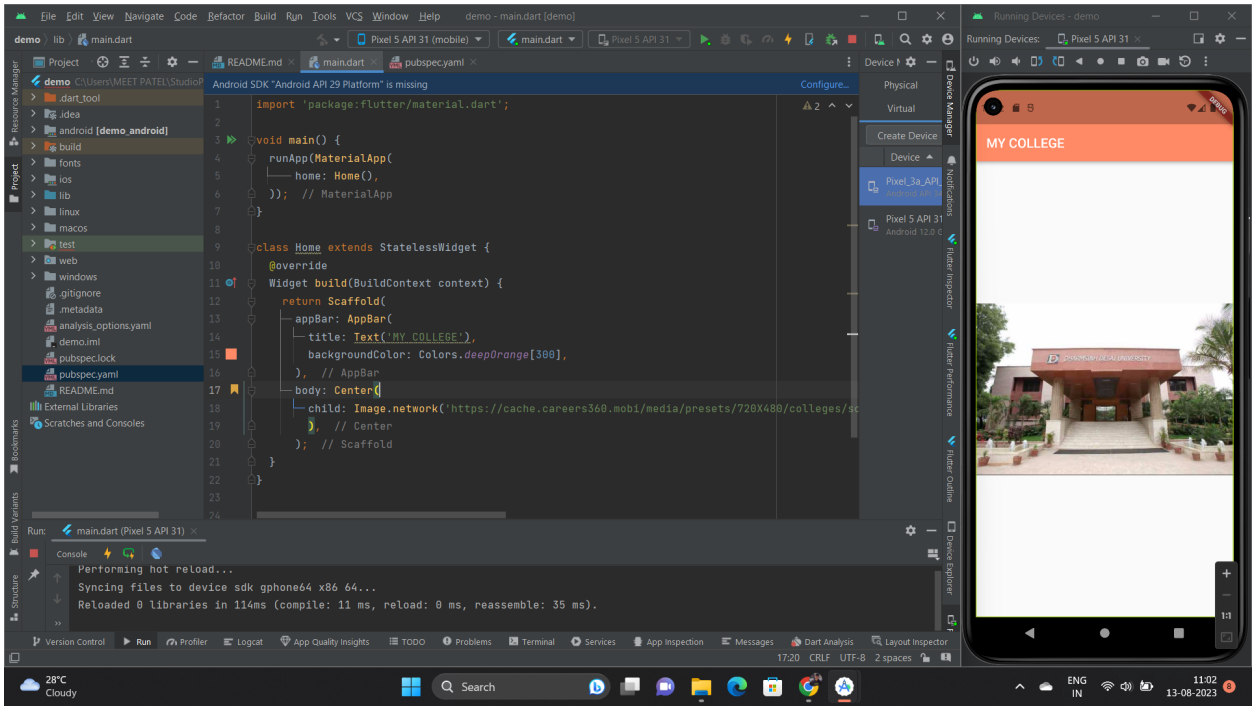

File Edit View Navigate Code Refactor Build Run Tools VCS Window Help
demo - main.dart [demo]
Running Devices - demo
Running Devices: Pixel 5 API 31
Project
README.md
main.dart
pubspec.yaml
Android SDK "Android API 29 Platform" is missing
Configure...
import 'package:flutter/material.dart';
void main() {
runApp(MaterialApp(
home: Home(),
)); // MaterialApp
}
class Home extends StatelessWidget {
@override
Widget build(BuildContext context) {
return Scaffold(
appBar: AppBar(
title: Text('MY FIRST APP'),
backgroundColor: Colors.deepOrange[300],
), // AppBar
body: Center(
child: Text(
'HELLO WORLD',
style: TextStyle(
fontSize: 24.0,
fontWeight: FontWeight.bold,
letterSpacing: 2.0,
color: Colors.blue[600],
Physical
Virtual
Create Device
Pixel_3a_API_
Pixel 5 API 31
Android 12.0
Run: main.dart (Pixel 5 API 31)
Console
Performing hot reload...
Syncing files to device sdk gphone64 x86 64...
Reloaded 0 libraries in 92ms (compile: 9 ms, reload: 0 ms, reassemble: 30 ms).
MY FIRST APP
HELLO WORLD
28°C
Cloudy
Search
ENG
IN
10:51
13-08-2023

- Test Code 7 : Inserting Image

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

void main() {
 runApp(MaterialApp(
     home: Home(),
 ));
}

class Home extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
   return Scaffold(
     appBar: AppBar(
       title: Text('MY COLLEGE'),
       backgroundColor: Colors.deepOrange[300],
     ),
     body: Center(
       child:
Image.network('https://cache.careers360.mobi/media/presets/720X480/colleges/soc
ial-media/media-gallery/739/2018/10/9/Campus%20View%20Of%20Dharmsinh%20Desai%20
University%20Nadiad_Campus-View.jpeg'),
       ),
     );
 }
}
```

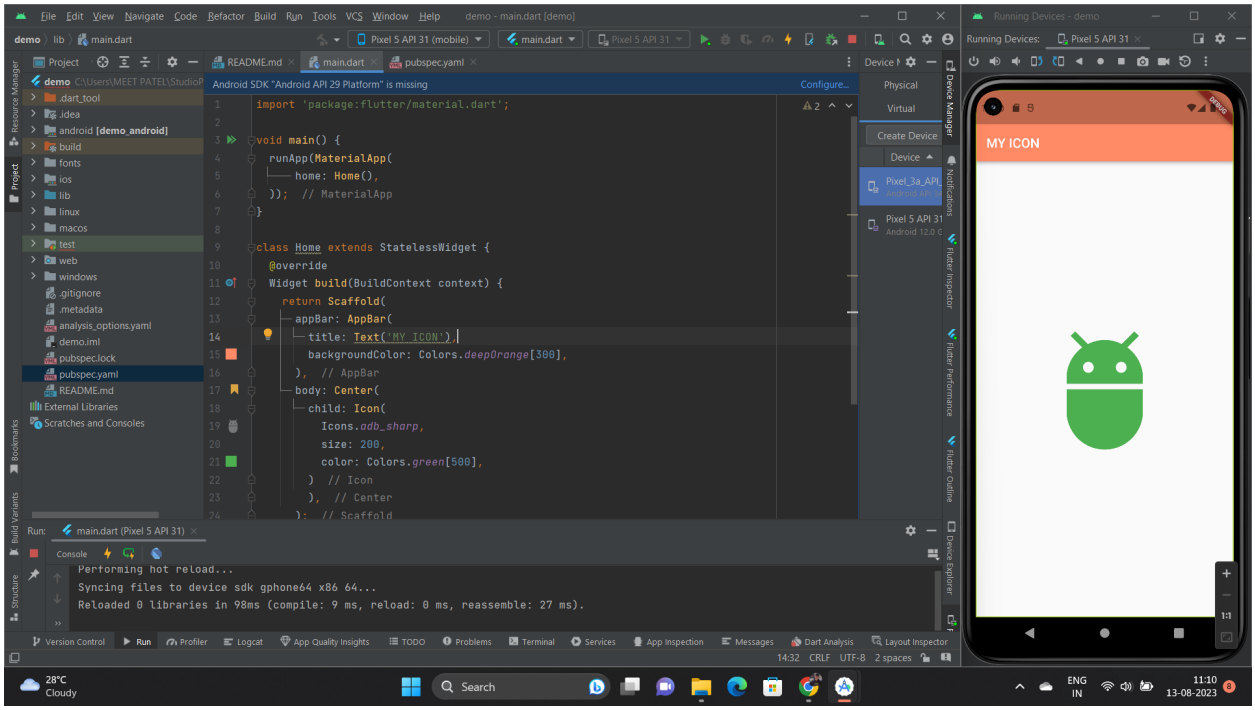

File Edit View Navigate Code Refactor Build Run Tools VCS Window Help
demo - main.dart [demo]
Android SDK "Android API 29 Platform" is missing
Configure...
import 'package:flutter/material.dart';
void main() {
runApp(MaterialApp(
home: Home(),
)); // MaterialApp
}
class Home extends StatelessWidget {
@override
Widget build(BuildContext context) {
return Scaffold(
appBar: AppBar(
title: Text('MY COLLEGE'),
backgroundColor: Colors.deepOrange[300],
), // AppBar
body: Center(
child: Image.network('https://cache.careers360.mobi/media/presets/720X480/colleges/sc
), // Center
); // Scaffold
}
}
Performing hot reload...
Syncing files to device sdk gphone64 x86 64...
Reloaded 0 libraries in 114ms (compile: 11 ms, reload: 0 ms, reassemble: 35 ms).
Running Devices - demo
MY COLLEGE
28°C
Cloudy
Search
ENG
IN
11:02
13-08-2023

- Test Code 8 : Inserting Icon

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

void main() {
 runApp(MaterialApp(
     home: Home(),
 ));
}

class Home extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
   return Scaffold(
     appBar: AppBar(
       title: Text('MY ICON'),
       backgroundColor: Colors.deepOrange[300],
     ),
     body: Center(
       child: Icon(
         Icons.adb_sharp,
         size: 200,
         color: Colors.green[500],
       )
       ),
     );
 }
}
```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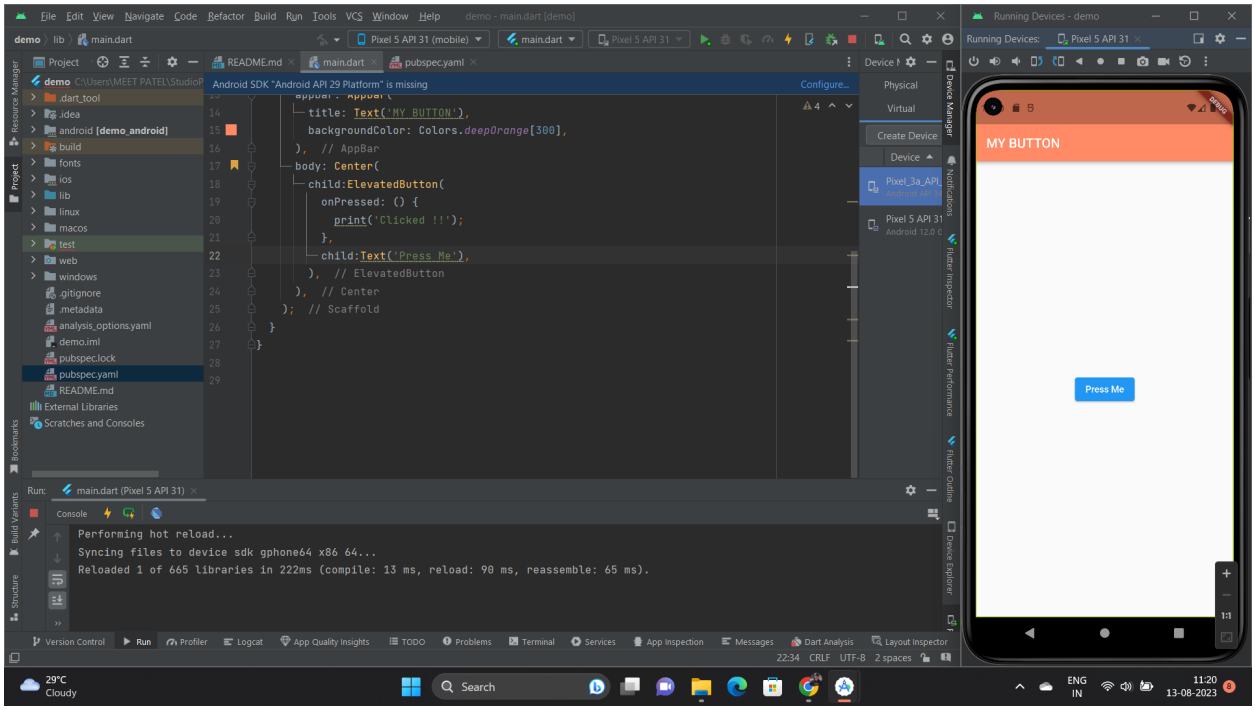
README.md
main.dart
pubspec.yaml
Android SDK "Android API 29 Platform" is missing
Configure...
import 'package:flutter/material.dart';
void main() {
runApp(MaterialApp(
home: Home(),
)); // MaterialApp
}
class Home extends StatelessWidget {
@override
Widget build(BuildContext context) {
return Scaffold(
appBar: AppBar(
title: Text('MY ICON'),
backgroundColor: Colors.deepOrange[300],
), // AppBar
body: Center(
child: Icon(
Icons.adb_sharp,
size: 200,
color: Colors.green[500],
) // Icon
), // Center
); // Scaffold
Physical
Virtual
Create Device
Pixel_3a_API_
Pixel 5 API 31
Android 12.0
Run: main.dart (Pixel 5 API 31)
Console
Performing hot reload...
Syncing files to device sdk gphone64 x86 64...
Reloaded 0 libraries in 98ms (compile: 9 ms, reload: 0 ms, reassemble: 27 ms).
Running Devices: Pixel 5 API 31
MY ICON
28°C
Cloudy
Search
ENG
IN
11:10
13-08-2023

- Test Code 9 : Inserting Button

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

void main() {
 runApp(MaterialApp(
     home: Home(),
 ));
}

class Home extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
   return Scaffold(
     appBar: AppBar(
       title: Text('MY BUTTON'),
       backgroundColor: Colors.deepOrange[300],
     ),
     body: Center(
       child:ElevatedButton(
         onPressed: () {
           print('Clicked !!');
         },
         child:Text('Press Me'),
       ),
     ),
   );
 }
}
```


File Edit View Navigate Code Refactor Build Run Tools VCS Window Help
demo - main.dart [demo]
Android SDK "Android API 29 Platform" is missing
Configure...
title: Text('MY BUTTON'),
backgroundColor: Colors.deepOrange[300],
), // AppBar
body: Center(
child:ElevatedButton(
onPressed: () {
print('Clicked !!');
},
child:Text('Press Me'),
), // ElevatedButton
), // Center
); // Scaffold
}
}
Performing hot reload...
Syncing files to device sdk gphone64 x86 64...
Reloaded 1 of 665 libraries in 222ms (compile: 13 ms, reload: 90 ms, reassemble: 65 ms).
Running Devices - demo
MY BUTTON
Press Me
29°C
Cloudy
Search
ENG
IN
11:20
13-08-2023