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Subject: SDP

Lab : 6

Tutorial-2

- Running Default Code With Some Change Like Change Colour Of Theme

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

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

class MyApp extends StatelessWidget {
  const MyApp({Key? key}) : super(key: key);

  // This widget is the root of your application.
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Flutter Demo',
      theme: ThemeData(
        // This is the theme of your application.
        //
        // Try running your application with "flutter run". You'll see the
        // application has a blue toolbar. Then, without quitting the app, try
        // changing the primarySwatch below to Colors.green and then invoke
        // "hot reload" (press "r" in the console where you ran "flutter run",
        // or simply save your changes to "hot reload" in a Flutter IDE).
        // Notice that the counter didn't reset back to zero; the application
        // is not restarted.
        primarySwatch: Colors.purple,
      ),
      home: const MyHomePage(title: 'Flutter Demo Home Page'),
    );
  }
}
```

```

class MyHomePage extends StatefulWidget {
  const MyHomePage({Key? key, required this.title}) : super(key: key);

  // This widget is the home page of your application. It is stateful, meaning
  // that it has a State object (defined below) that contains fields that affect
  // how it looks.

  // This class is the configuration for the state. It holds the values (in this
  // case the title) provided by the parent (in this case the App widget) and
  // used by the build method of the State. Fields in a Widget subclass are
  // always marked "final".

  final String title;

  @override
  State<MyHomePage> createState() => _MyHomePageState();
}

class _MyHomePageState extends State<MyHomePage> {
  int _counter = 0;

  void _incrementCounter() {
    setState(() {
      // This call to setState tells the Flutter framework that something has
      // changed in this State, which causes it to rerun the build method below
      // so that the display can reflect the updated values. If we changed
      // _counter without calling setState(), then the build method would not be
      // called again, and so nothing would appear to happen.
      _counter++;
    });
  }

  @override
  Widget build(BuildContext context) {
    // This method is rerun every time setState is called, for instance as done
    // by the _incrementCounter method above.
    //
    // The Flutter framework has been optimized to make rerunning build methods
    // fast, so that you can just rebuild anything that needs updating rather
    // than having to individually change instances of widgets.
    return Scaffold(
      appBar: AppBar(
        // Here we take the value from the MyHomePage object that was created by
        // the App.build method, and use it to set our appBar title.
        title: Text(widget.title),
      ),
      body: Center(
        // Center is a layout widget. It takes a single child and positions it
        // in the middle of the parent.
        child: Column(
          // Column is also a layout widget. It takes a list of children and
          // arranges them vertically. By default, it sizes itself to fit its
          // children horizontally, and tries to be as tall as its parent.
          //
          // Invoke "debug painting" (press "p" in the console, choose the
          // "Toggle Debug Paint" action from the Flutter Inspector in Android

```

```

// Studio, or the "Toggle Debug Paint" command in Visual Studio Code)
// to see the wireframe for each widget.
//
// Column has various properties to control how it sizes itself and
// how it positions its children. Here we use mainAxisAlignment to
// center the children vertically; the main axis here is the vertical
// axis because Columns are vertical (the cross axis would be
// horizontal).
mainAxisAlignment: MainAxisAlignment.center,
children: <Widget>[
  const Text(
    'You have pushed the button this many times:',
  ),
  Text(
    '$_counter',
    style: Theme.of(context).textTheme.headline4,
  ),
],
),
),
floatingActionButton: FloatingActionButton(
  onPressed: _incrementCounter,
  tooltip: 'Increment',
  child: const Icon(Icons.add),
), // This trailing comma makes auto-formatting nicer for build methods.
);
}
}

```



```

import 'package:flutter/material.dart';

void main() => runApp(MaterialApp(
  // home is property and after : is its value widget.
  // Scaffold is widgets built in flutter sdk..Scaffold is one type o layout
  manager..
  home: Scaffold(
    appBar: AppBar(
      title: Text('HELLO FLUTTER...MY FIRST APP'),
      backgroundColor: Colors.green[300],
      //To Make Title In Center
      centerTitle: true,
    ),
    body: Center(
      child: Text('Hello Our Name Is Megha And Princy.'),
    ),
    floatingActionButton: FloatingActionButton(
      //Compulsory onPressed after floatingActionButton
      onPressed: () { },
      child: const Icon(Icons.navigation),
      backgroundColor: Colors.green[300],
    ),
  ),
));

```



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

void main() => runApp(MaterialApp(
  // home is property and after : is its value widget.
  // Scaffold is widgets built in flutter sdk..Scaffold is one type o layout
  manager..
  home: Scaffold(
    appBar: AppBar(
      title: Text('HELLO FLUTTER...MY FIRST APP'),
      backgroundColor: Colors.green[300],
      //To Make Title In Center
      centerTitle: true,
    ),
    body: Center(
      child: Text('Hello Our Name Is Megha And Princy.',
        style: TextStyle(
          fontSize: 24.0,
          fontWeight: FontWeight.bold,
          letterSpacing: 2.0,
          color: Colors.grey[600],
          //Adding Google Font
          fontFamily: 'MsMadi'
        ),
      ),
    ),
  ),
  floatingActionButton: FloatingActionButton(
    //Compulsory onPressed after floatingActionButton
    onPressed: () { },
    child: const Icon(Icons.navigation),
    backgroundColor: Colors.green[300],
  ),
),
));
```



```
import 'package:flutter/material.dart';
void main() => runApp(MaterialApp(
  // home is property and after : is its value widget.
  // Scaffold is widgets built in flutter sdk..Scaffold is one type of layout
  manager..
    home: HomeScreen(),
));
// making your own custom stateless widget....
// used in Hot reload and also useful in reuse...DRY feature
class HomeScreen extends StatelessWidget {
  // const test1({Key? key}) : super(key: key);
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text(
          'HELLO FLUTTER...MY FIRST APP'),
        centerTitle: true,
        backgroundColor: Colors.green[300],
      ),
      body: Center(
        child: Text('Hello Our Name Is Megha And Princy.',
```

```

        style: TextStyle(
          fontSize: 24.0,
          fontWeight: FontWeight.bold,
          letterSpacing: 2.0,
          color: Colors.grey[600],
        ),
      ),
    ),
    floatingActionButton: FloatingActionButton(
      onPressed: () {}, // must required property...
      // making change at here to test hot reloading..click --> click me-->
Click and ctrl + s
      child: const Icon(Icons.navigation),
      backgroundColor: Colors.green[300],
    ),
  );
}

```

