

LAB-7

TUTORIAL-1

SMART DEVICE PROGRAMMING



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GIT REPO:

https://github.com/naikshrey2308/CE073_SDP_Labs

There are 2 types of widgets:

- Stateless: Widgets whose state cannot be changed
- Stateful: Widgets whose state can be changed

To add stateless widget, type **stless** and press the Tab key.

To add stateful widget, type **stful** and press the Tab key.

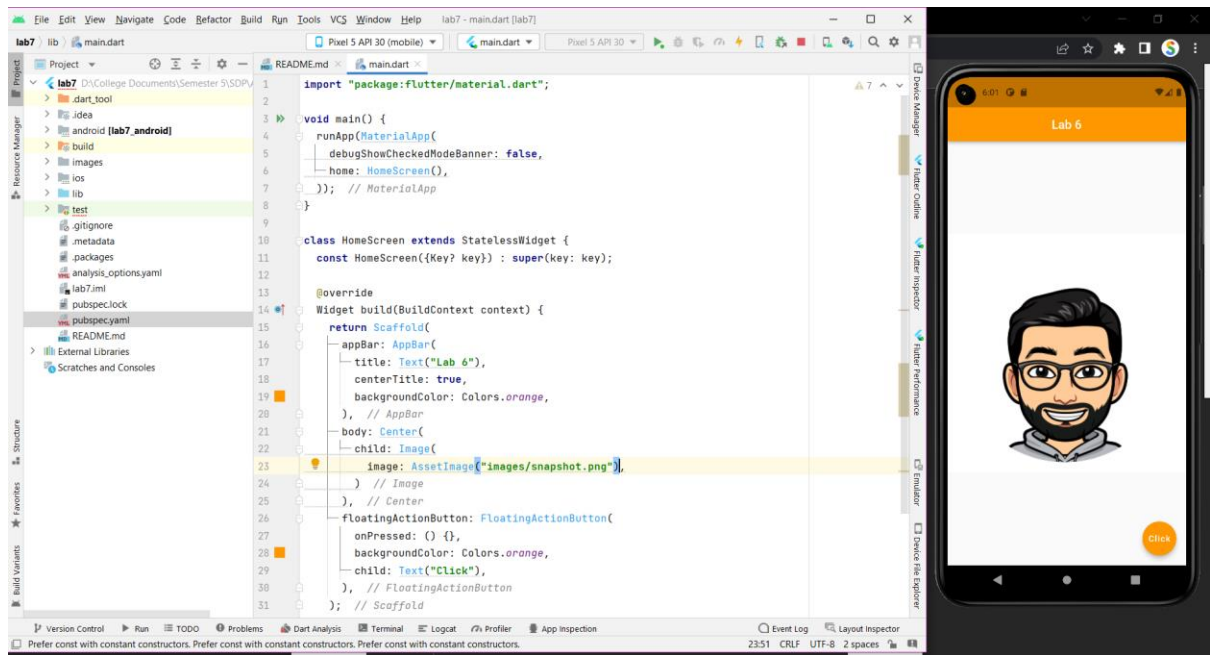
Code Test 1:

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

void main() {
  runApp(MaterialApp(
    debugShowCheckedModeBanner: false,
    home: HomeScreen(),
  ));
}

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

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text("Lab 6"),
        centerTitle: true,
        backgroundColor: Colors.orange,
      ),
      body: Center(
        child: Image(
          image: AssetImage("images/snapshot.png"),
        )
      ),
      floatingActionButton: FloatingActionButton(
        onPressed: () {},
        backgroundColor: Colors.orange,
        child: Text("Click"),
      ),
    );
  }
}
```

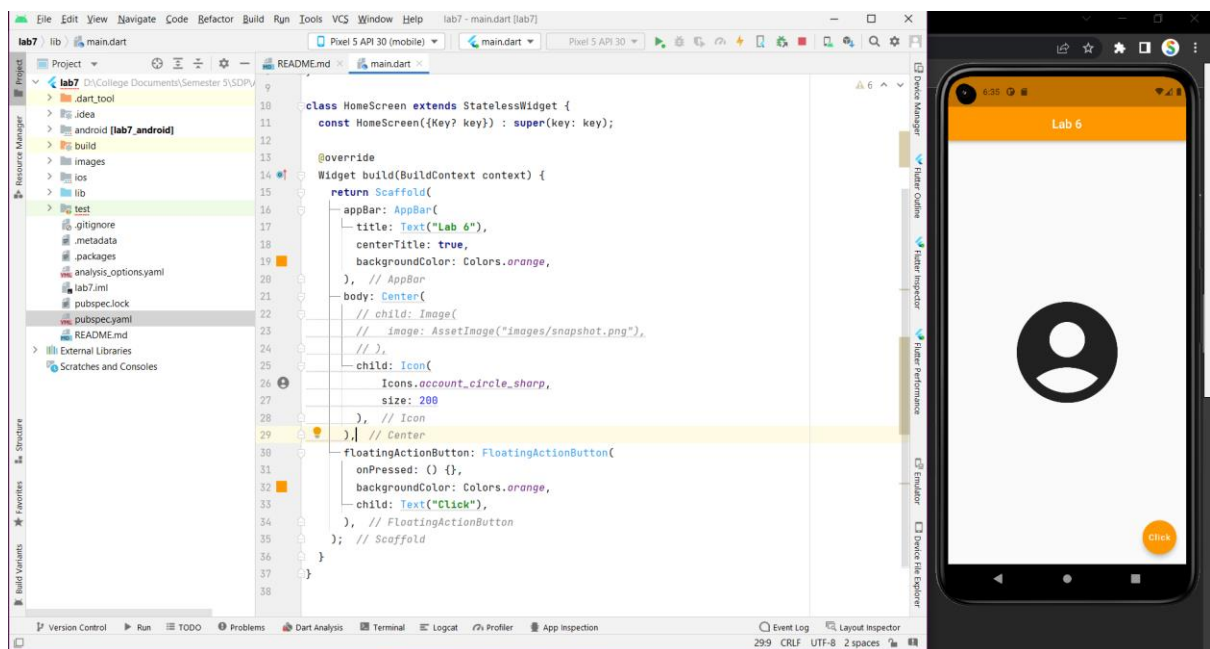


Code Test 2:

```

body: Center(
  // child: Image(
  //   image: AssetImage("images/snapshot.png"),
  // ),
  child: Icon(
    Icons.account_circle_sharp,
    size: 200
  ),
),

```



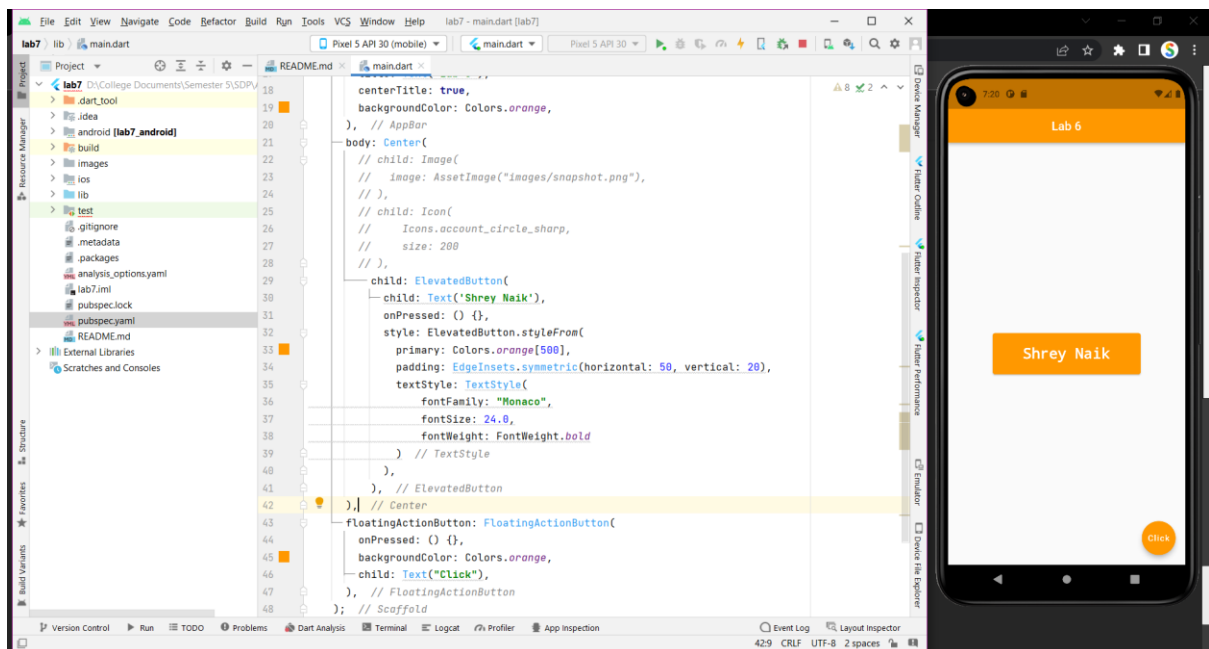
Code Test 3:

Adding an Elevated Button

```

child: ElevatedButton(
  child: Text('Shrey Naik'),
  onPressed: () {},
  style: ElevatedButton.styleFrom(
    primary: Colors.orange[500],
    padding: EdgeInsets.symmetric(horizontal: 50, vertical: 20),
    textStyle: TextStyle(
      fontFamily: "Monaco",
      fontSize: 24.0,
      fontWeight: FontWeight.bold
    )
  ),
),
),
),

```

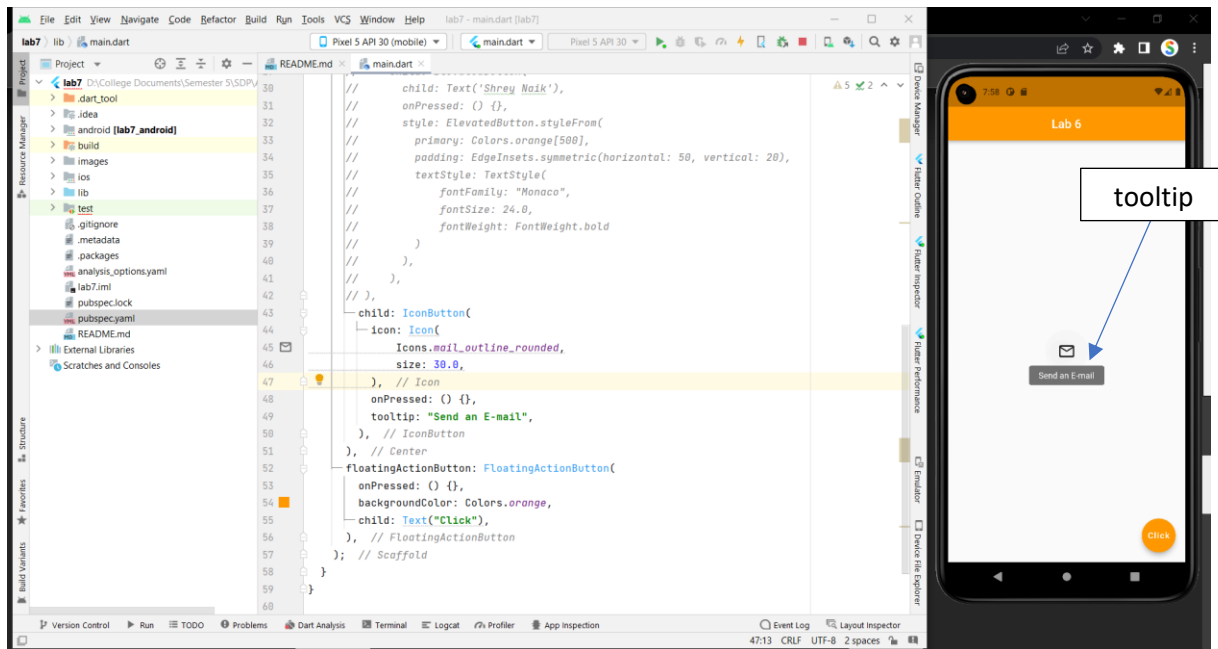


Adding an Icon Button

```

child: IconButton(
  icon: Icon(
    Icons.mail_outline_rounded,
    size: 30.0,
  ),
  onPressed: () {},
  tooltip: "Send an E-mail",
),

```

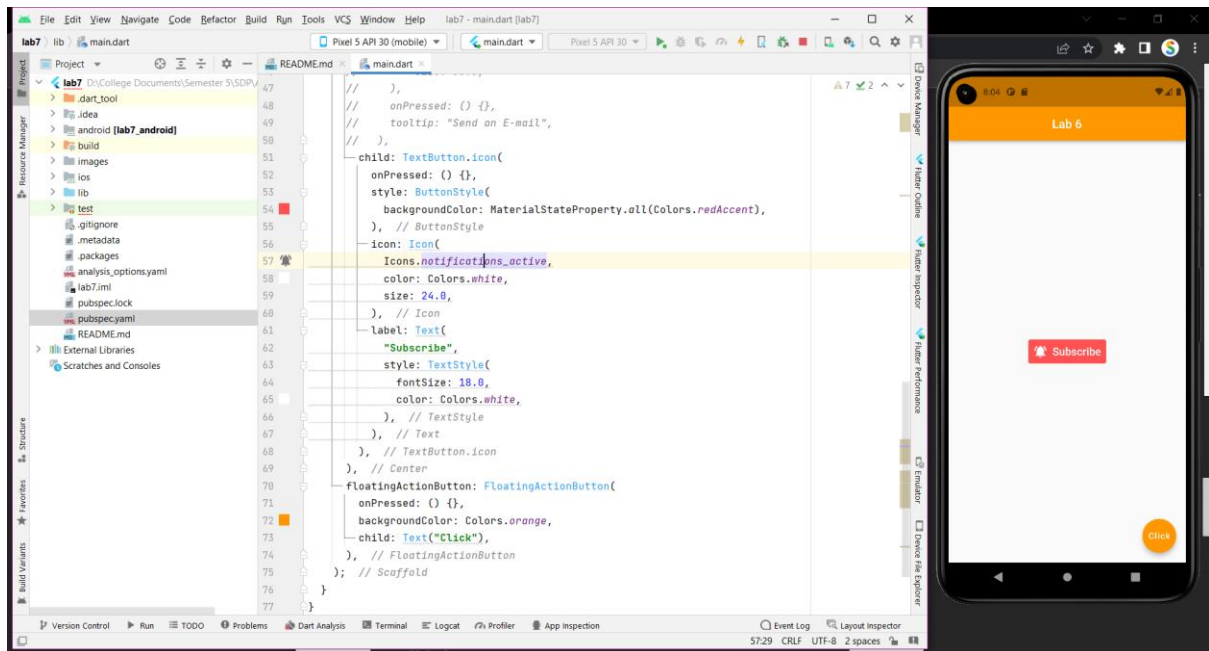


Adding Text Button with an Icon

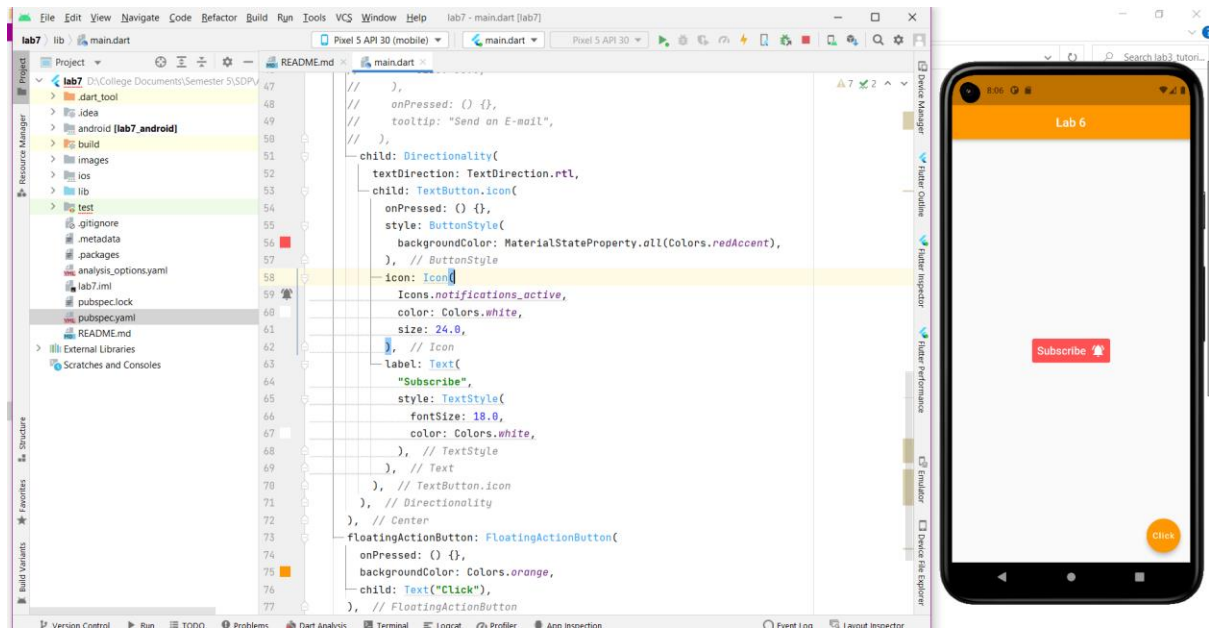
```

child: TextButton.icon(
  onPressed: () {},
  style: ButtonStyle(
    backgroundColor: MaterialStateProperty.all(Colors.redAccent),
  ),
  icon: Icon(
    Icons.notifications_active,
    color: Colors.white,
    size: 24.0,
  ),
  label: Text(
    "Subscribe",
    style: TextStyle(
      fontSize: 18.0,
      color: Colors.white,
    ),
  ),
),
),
),

```



```
child: Directionality(
  textDirection: TextDirection.rtl,
  child: TextButton.icon(
    onPressed: () {},
    style: ButtonStyle(
      backgroundColor: MaterialStateProperty.all(Colors.redAccent),
    ),
    icon: Icon(
      Icons.notifications_active,
      color: Colors.white,
      size: 24.0,
    ),
    label: Text(
      "Subscribe",
      style: TextStyle(
        fontSize: 18.0,
        color: Colors.white,
      ),
    ),
  ),
),
```



Adding a Flat Button

```

child: FlatButton(
  onPressed: () {},
  child: Text("Click Me"),
  color: Colors.orange,
),

```

