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4a .import 'package:flutter/material.dart';

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

class MyApp extends StatelessWidget {
  const MyApp({super.key});

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: HomeScreen(),
    );
  }
}

class HomeScreen extends StatelessWidget {
  const HomeScreen({super.key});

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text("Home Screen"),
      ),
      body: Center(
        child: ElevatedButton(
          onPressed: () {
            Navigator.push(
              context,
              MaterialPageRoute(
                builder: (context) => SecondScreen(),
              ),
            );
          },
          child: Text("Go to Second Screen"),
        ),
      ),
    );
  }
}

class SecondScreen extends StatelessWidget {
```

```
const SecondScreen({super.key});

@Override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: Text("Second Screen"),
    ),
    body: Center(
      child: ElevatedButton(
        onPressed: () {
          Navigator.pop(context);
        },
        child: Text("Go Back to Home Screen"),
      ),
    ),
  );
}

5a.import 'package:flutter/material.dart';

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

class WidgetDemo extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: Text('Stateless vs Stateful')),
      body: Padding(
        padding: const EdgeInsets.all(20.0),
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
            StatelessExample(text: 'I am Stateless'),
            SizedBox(height: 40),
            StatefulExample(),
          ],
        ),
      ),
    );
  }
}
```

```
}

}

class StatelessExample extends StatelessWidget {
final String text;

const StatelessExample({required this.text});

@Override
Widget build(BuildContext context) {
    return Text(
        text,
        style: TextStyle(fontSize: 24),
    );
}
}

class StatefulExample extends StatefulWidget {
@Override
_StatefulExampleState createState() => _StatefulExampleState();
}

class _StatefulExampleState extends State<StatefulExample> {
int counter = 0;

void incrementCounter() {
    setState(() {
        counter++;
    });
}

@Override
Widget build(BuildContext context) {
    return Column(
        children: [
            Text(
                'Counter: $counter',
                style: TextStyle(fontSize: 24),
            ),
            SizedBox(height: 10),
            ElevatedButton(
                onPressed: incrementCounter,
                child: Text('Increment'),
            ),
        ],
    );
}
}
```

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