

```
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'),
```

```
        ),
```

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