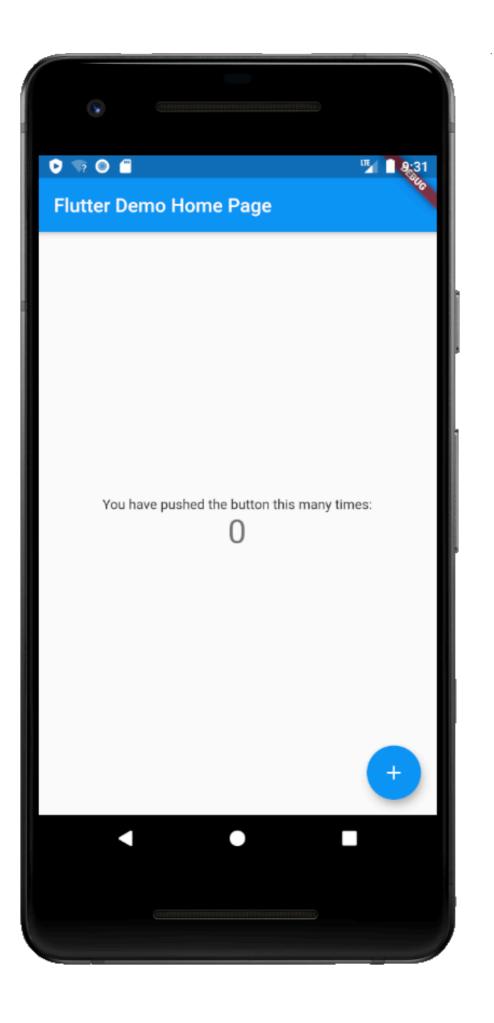
EXEMPLO A

Crie um aplicativo no Android Studio.

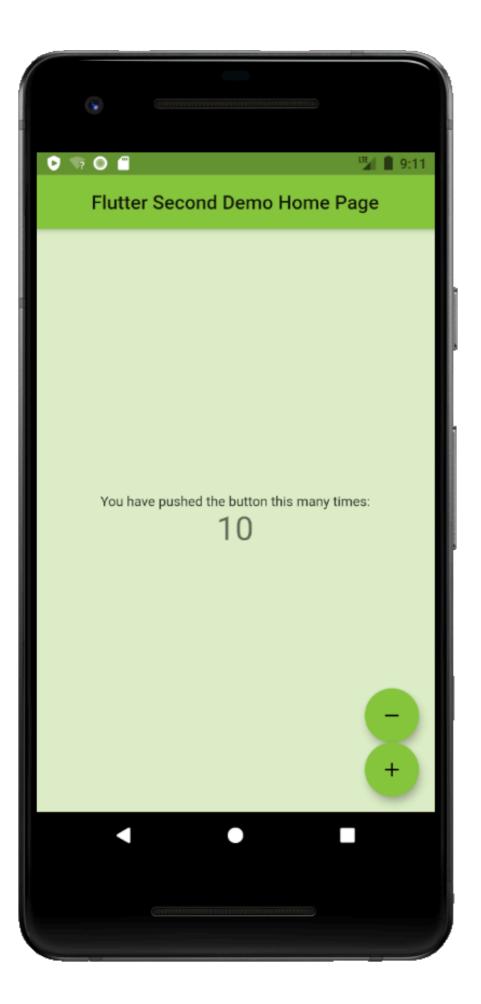
File | New Flutter Project | Flutter Application

Siga as instruções nos comentários para alterar o aplicativo.



```
import 'package:flutter/material.dart';
 void main() {
   runApp(MyApp());
 class MyApp extends StatelessWidget {
   @override
  Widget build(BuildContext context) {
     return MaterialApp(
       title: 'Flutter Demo',
       theme: ThemeData(
         primarySwatch: Colors.blue,
         visualDensity: VisualDensity.adaptivePlatformDensity,
       home: MyHomePage(title: 'Flutter Demo Home Page'),
     );
  }
 }
 class MyHomePage extends StatefulWidget {
  MyHomePage({Key key, this.title}) : super(key: key);
   final String title;
   _MyHomePageState createState() => _MyHomePageState();
class _MyHomePageState extends State<MyHomePage> {
  int _counter = 0;
   void incrementCounter() {
     setState(() {
       _counter++;
    });
  @override
  Widget build(BuildContext context) {
     return Scaffold(
       appBar: AppBar(
         title: Text(widget.title),
       body: Center(
         child: Column(
           mainAxisAlignment: MainAxisAlignment.center,
           children: <Widget>[
                'You have pushed the button this many times:',
             ),
             Text(
                '$ counter',
               style: Theme.of(context).textTheme.headline4,
             ),
          ],
         ),
       floatingActionButton: FloatingActionButton(
         onPressed: _incrementCounter,
         tooltip: 'Increment',
         child: Icon(Icons.add),
);
}
      ),
```

Altere o aplicativo para permitir incrementar ou decrementar o contador. Utilize dois botões organizados em coluna.



```
import 'package:flutter/material.dart';
void main() =>
  runApp(MyApp());
class MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      title: 'Flutter Second Demo',
      theme: ThemeData(
        primarySwatch: Colors.lightGreen,
        canvasColor: Colors.lightGreen.shade100,
        platform: TargetPlatform.iOS,
        visualDensity: VisualDensity.adaptivePlatformDensity,
      ),
     home: MyHomePage(title: 'Flutter Second Demo Home Page'),
    );
 }
}
class MyHomePage extends StatefulWidget {
 MyHomePage({Key key, this.title}) : super(key: key);
  final String title;
 @override
  MyHomePageState createState() => MyHomePageState();
class _MyHomePageState extends State<MyHomePage> {
  int _counter = 0;
 void _incrementCounter() {
    setState(() {
      _counter++;
   });
  void decrementCounter() {
    setState(() {
      _counter--;
   });
 }
 @override
 Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text(widget.title),
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
            Text(
              'You have pushed the button this many times:',
            ),
            Text(
              '$_counter',
```

```
style: Theme.of(context).textTheme.headline4,
              ),
           ],
         ),
       ),
       floatingActionButton: Column(
            mainAxisAlignment: MainAxisAlignment.end,
            children: [
          FloatingActionButton(
            onPressed: _decrementCounter,
            tooltip: 'Decrement',
child: Icon(Icons.remove),
         ),
          FloatingActionButton(
            onPressed: _incrementCounter,
            tooltip: 'Increment',
child: Icon(Icons.add),
);
}
}
       ]), // This trailing comma makes auto-formatting nicer for build methods.
```

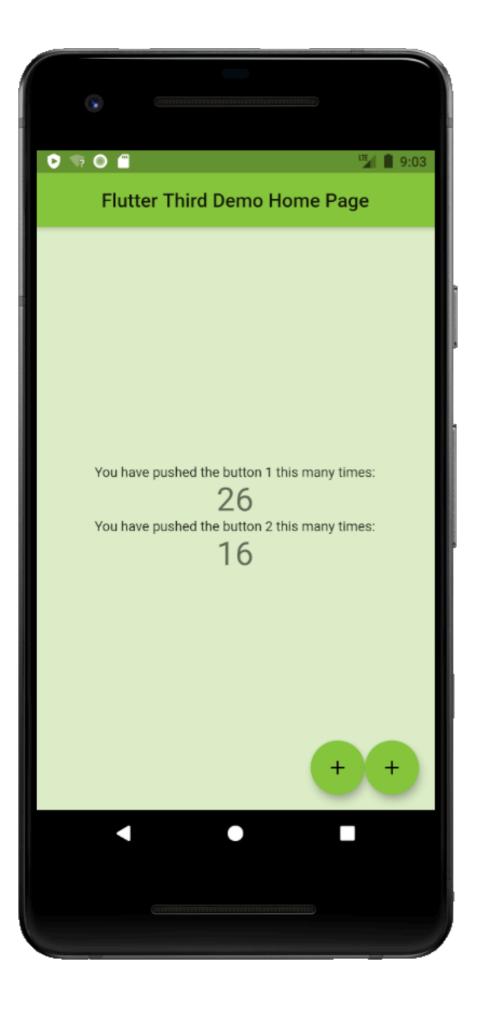
Altere a tela para permitir incrementar ou decrementar o contador. Utilize botões organizados em linha. Altere os ícones nos botões.



```
import 'package:flutter/material.dart';
void main() =>
  runApp(MyApp());
class MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      title: 'Flutter Second Demo',
      theme: ThemeData(
        primarySwatch: Colors.lightGreen,
        canvasColor: Colors.lightGreen.shade100,
        platform: TargetPlatform.iOS,
        visualDensity: VisualDensity.adaptivePlatformDensity,
     home: MyHomePage(title: 'Flutter Still Second Demo Home Page'),
   );
 }
}
class MyHomePage extends StatefulWidget {
 MyHomePage({Key key, this.title}) : super(key: key);
  final String title;
 @override
  _MyHomePageState createState() => _MyHomePageState();
class _MyHomePageState extends State<MyHomePage> {
  int _counter = 0;
  void _incrementCounter() {
    setState(() {
      _counter++;
   });
  void _decrementCounter() {
    setState(() {
      _counter--;
    });
  }
 @override
 Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text(widget.title),
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
            Text(
              'You have pushed the button this many times:',
            ),
            Text(
```

```
'$_counter',
                style: Theme.of(context).textTheme.headline4,
             ),
           ],
        ),
       floatingActionButton: Row(
           mainAxisAlignment: MainAxisAlignment.end,
           children: [
         FloatingActionButton(
           onPressed: _decrementCounter,
           tooltip: 'Decrement',
           child: Icon(Icons.remove_circle),
         FloatingActionButton(
           onPressed: _incrementCounter,
tooltip: 'Increment',
child: Icon(Icons.add_circle),
      1), // This trailing comma makes auto-formatting nicer for build methods.
    );
 }
}
```

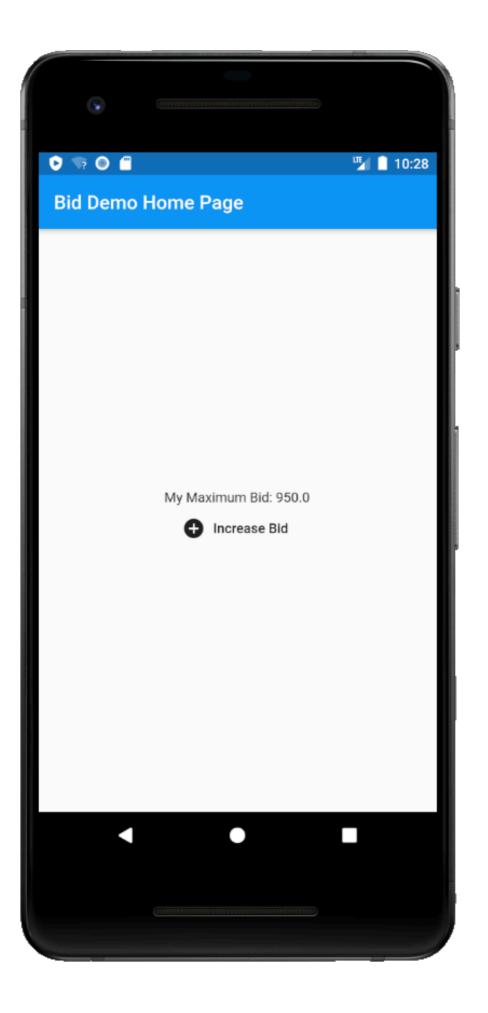
Altere a aplicação para apresentar dois contadores.



```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      title: 'Flutter Second Demo',
      theme: ThemeData(
        primarySwatch: Colors.lightGreen,
        canvasColor: Colors.lightGreen.shade100,
        platform: TargetPlatform.iOS,
        visualDensity: VisualDensity.adaptivePlatformDensity,
     home: MyHomePage(title: 'Flutter Third Demo Home Page'),
    );
 }
}
class MyHomePage extends StatefulWidget {
 MyHomePage({Key key, this.title}) : super(key: key);
  final String title;
 @override
  _MyHomePageState createState() => _MyHomePageState();
class _MyHomePageState extends State<MyHomePage> {
  int _counter1 = 0;
  int _counter2 = 0;
 void _incrementCounter1() {
    setState(() {
      _counter1++;
    });
 void _incrementCounter2() {
    setState(() {
      _counter2++;
    });
 @override
 Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text(widget.title),
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
              'You have pushed the button 1 this many times:',
            ),
            Text(
              '$_counter1',
              style: Theme.of(context).textTheme.headline4,
```

```
),
            Text(
              'You have pushed the button 2 this many times:',
            Text(
              '$_counter2',
              style: Theme.of(context).textTheme.headline4,
            ),
         ],
        ),
      ), floatingActionButton:
          Row(mainAxisAlignment: MainAxisAlignment.end, children: [
        FloatingActionButton(
          onPressed: _incrementCounter1,
          tooltip: 'Increment 1',
          child: Icon(Icons.add),
        ),
        FloatingActionButton(
          onPressed: _incrementCounter2,
          tooltip: 'Increment 2',
          child: Icon(Icons.add),
      ]), // This trailing comma makes auto-formatting nicer for build methods.
   );
 }
}
```

Altere a aplicação para manter um lance (bid) em um leilão. O lance aumenta em 50 unidades a cada vez.



```
import 'package:flutter/material.dart';
void main() {
  runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
 Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Flutter Demo',
      debugShowCheckedModeBanner: false,
      theme: ThemeData(
        primarySwatch: Colors.blue,
        visualDensity: VisualDensity.adaptivePlatformDensity,
      home: MyHomePage(title: 'Bid Demo Home Page'),
   );
 }
}
class MyHomePage extends StatelessWidget {
 MyHomePage({Key key, this.title}) : super(key: key);
  final String title;
  @override
 Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text(title),
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
            MaximumBid(),
          ],
       ),
     ),
   );
}
class MaximumBid extends StatefulWidget {
  MaximumBidState createState() => MaximumBidState();
class _MaximumBidState extends State<MaximumBid> {
  double _{maxBid} = 0.0;
  void _increaseMyMaxBid() {
    setState(() {
// Add $50 to my current bid
      _{maxBid} += 50.0;
    });
  @override
 Widget build(BuildContext context) {
    return Column(
      children: <Widget>[
        Text('My Maximum Bid: $_maxBid'),
        FlatButton.icon(
```

```
onPressed: () => _increaseMyMaxBid(),
    icon: Icon(Icons.add_circle),
    label: Text('Increase Bid'),
    ),
    );
}
```