```
void main()
 print("Hello Dart");
 int num1 = 5;
 int num2 = 4;
 int sum = num1 + num2;
 print("The sum of $num1 and $num2 is $sum");
 String str1 = "Hello, ";
 String str2 = "World!";
 String result = str1+str2;
 print(result);
 String str='Coding is';
 String Str1 = 'Fun';
 bool val = (str==Str1);
 print(val);
 List<int>numbers = [1,2,3,4,5];
 print("Numbers:$numbers");
 print("First element: ${numbers[0]}");
 print("Second element: ${numbers[1]}");
 numbers.add(6);
 numbers.remove(3);
 print("After removing 3: $numbers");
 int length = numbers.length;
 print("Length of the list: $length");
}
void main()
{
 Map<String, String> capitals = {
  'USA': 'Washington, D.C.',
  'France':'Paris',
  'Japan':'Tokyo',
 print("Country-Capital Map: $capitals");
 print("Capital of USA: ${capitals['USA']}");
 capitals['Germany']='Berlin';
 print("After adding Germany: $capitals");
 print("Country-Capital Paris:");
 for (var country in capitals.keys){
  var capital =capitals[country];
  print("The capital of $country is $capital");
 }
```

```
capitals.remove('France');
 print("After removing France: $capitals");
 bool hasJapan = capitals.containsKey('Japan');
 print("Does the map have Japan as a key? $hasJapan");
 void main()
{
 int num1 = 4;
 int num2 = 5;
 String op = '+';
 if (op =='+');
  int sum = num1+num2;
  print("$num1 + $num2 = $sum");
 }
 void main()
{
 int i;
 print("Rollno.s");
 for(i=1;i<111;i++)
 {
  if(i\%2==0)
   continue;
  print("$i");
 void main()
{
 int i;
 print("Rollno.s");
 for(i=1;i<111;i++)
  if(i==50)
   break;
  print("$i");
```

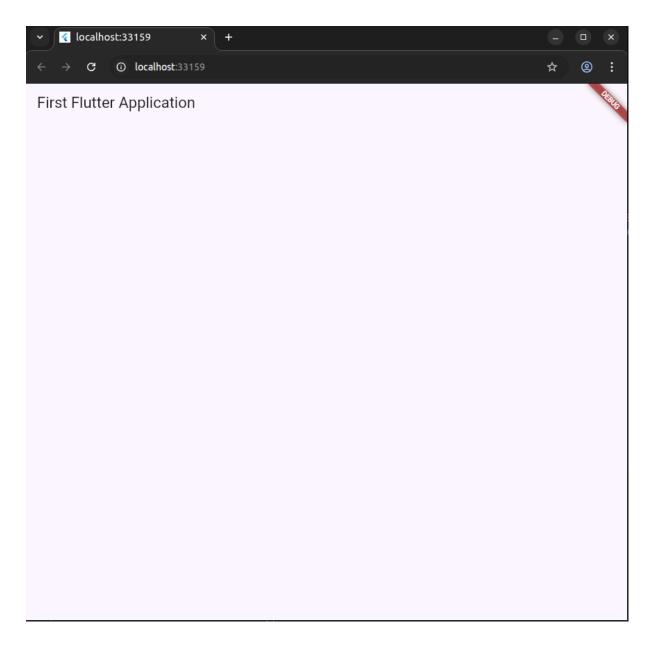
```
void main()
{
 for(int i=1;i<=5;i++)
  if(i==3){
   continue;
  print("Iteration $i");
 void calculateInterest(double principal,double rate,double time){
 double interest = principal *rate*time/100;
 print("Simple Interest is $interest");
}
void main(){
 double principal = 5000;
 double time=3;
 double rate=3;
 calculateInterest(principal,rate,time);
}
class Rectangle{
 double? length;
 double? breadth;
 double area(){
  return length! * breadth!;
}
void main(){
 Rectangle rectangle = Rectangle();
 rectangle.length = 10;
 rectangle.breadth = 5;
 print("The area of the rectangle is ${rectangle}")
```

```
Assignment:
import 'dart:math';
String generateRandomPassword({int length = 12}) {
 const String characters =
'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789!@#\$%^&
*() -+=<>?';
 Random random = Random();
 String password = ";
 for (int i = 0; i < length; i++) {
  int index = random.nextInt(characters.length);
  password += characters[index];
 }
 return password;
}
void main() {
 String randomPassword = generateRandomPassword(length: 16);
 print("Generated Password: $randomPassword");
}
int sumEvenNumbers(List<int> numbers) {
 return numbers.where((num) => num.isEven).reduce((a, b) => a + b);
}
void main() {
 List<int> numbers = [1, 2, 3, 4, 5, 6, 7, 8];
 print("Sum of even numbers: ${sumEvenNumbers(numbers)}");
}
class Book {
 String name;
 String author;
 double price;
 // Constructor
 Book(this.name, this.author, this.price);
 // Method to display the book details
 void display() {
```

```
print('Book Name: $name');
  print('Author: $author');
  print('Price: \$${price.toStringAsFixed(2)}');
}

void main() {
  Book myBook = Book('The Dart Programming Language', 'John Doe', 29.99);
  myBook.display();
}
```

```
import 'package:flutter/material.dart';
void main()
{
  runApp(Myapplication());
}
class Myapplication extends StatelessWidget{
  @override
Widget build(BuildContext context)
{
  return MaterialApp(
    home: Scaffold(
    appBar: AppBar(
        title: const Text('First Flutter Application'),
    ), ));
}
```



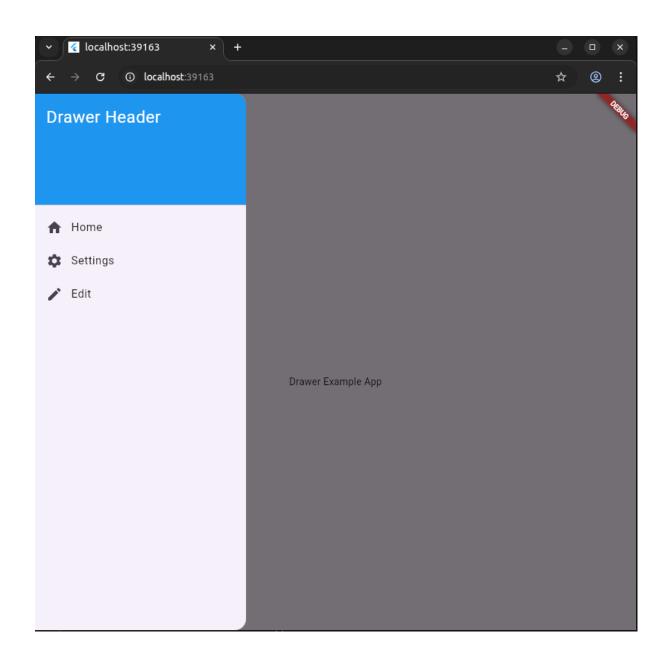
```
import 'package:flutter/material.dart';
void main()
{
   runApp(Myapplication());
}
class Myapplication extends StatelessWidget{
   @override
Widget build(BuildContext context)
{
   return MaterialApp(
    home: Scaffold(
    appBar: AppBar(
        title: const Text('First Flutter Application'),
    ), ));
```

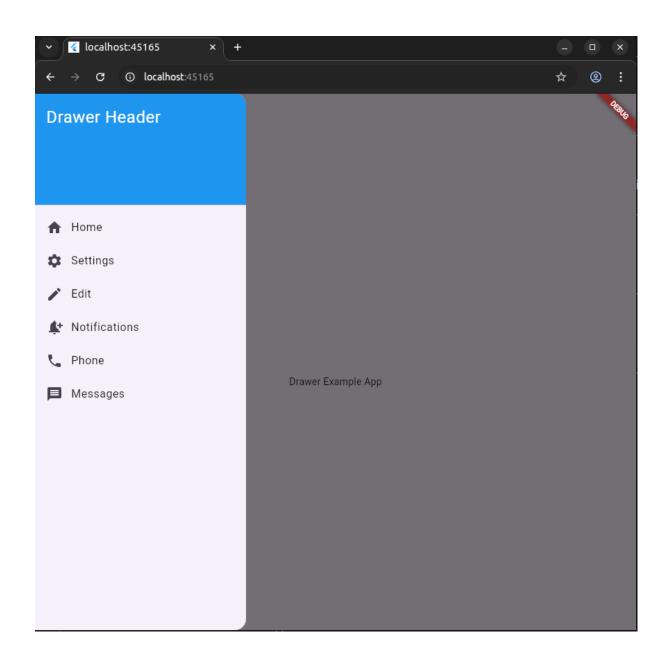
```
body: Center{
body: Center{
child: Text{"This is the first app I have been building!!!"}
    style: TextStyle( color: Colors.black,fontsize:30.0,),),),);
}
}
```

[correct it]

```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
       appBar: AppBar(
       ),
       drawer: Drawer(
        child: ListView(
           padding: EdgeInsets.zero,
          children: <Widget>[
               decoration: BoxDecoration(
               ),
                style: TextStyle(
                  color: Colors.white,
                  fontSize: 24,
                 ),
              leading: Icon(Icons.home),
              onTap: () => Navigator.pop(context),
```

```
),
ListTile(
    leading: Icon(Icons.settings),
    title: Text('Settings'),
    onTap: () => Navigator.pop(context),
),
ListTile(
    leading: Icon(Icons.edit),
    title: Text('Edit'),
    onTap: () => Navigator.pop(context),
),
    l,
),
    lody: Center(
    child: Text('Drawer Example App'),
),
),
),
);
}
```





```
//floating action button

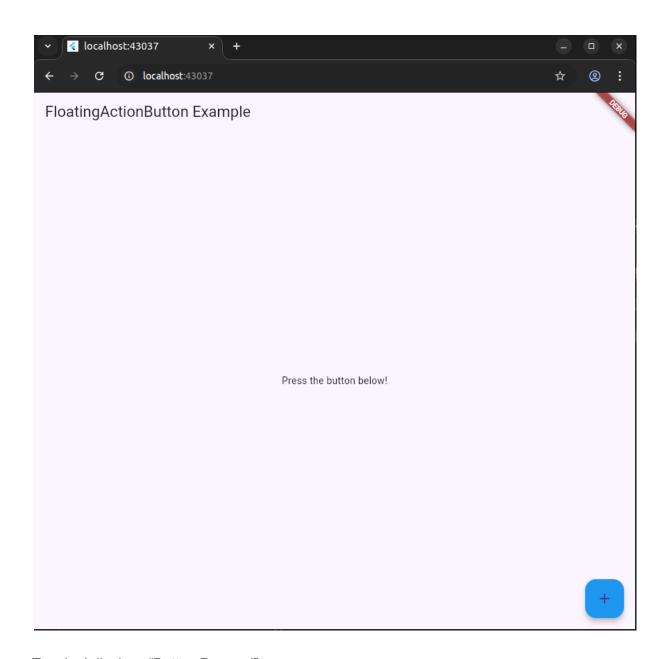
import 'package:flutter/material.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
  @override

Widget build(BuildContext context) {
  return MaterialApp(
    home: Scaffold()
```

```
appBar: AppBar(
    title: Text('FloatingActionButton Example'),
),
body: Center(
    child: Text('Press the button below!'),
),
floatingActionButton: FloatingActionButton(
    onPressed: () {
        // Action to perform when the button is pressed
        print('Button Pressed!');
     },
     child: Icon(Icons.add),
     backgroundColor: Colors.blue,
),
),
);
}
```



Terminal displays "Button Pressed" message

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

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
  @override

Widget build(BuildContext context) {
  return MaterialApp(
    home: Scaffold(
        appBar: AppBar()
```

Container Example

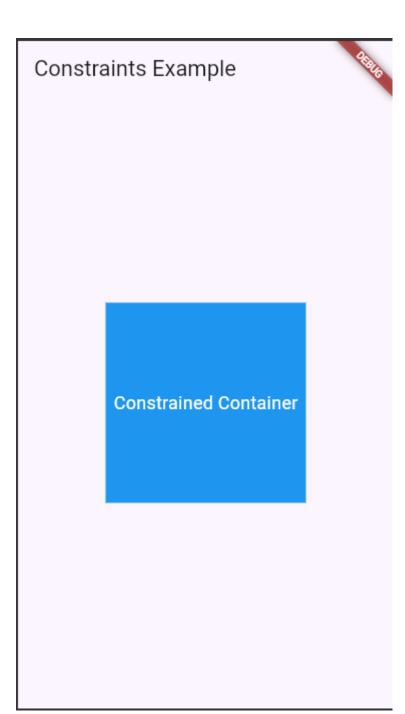
Hello! I am in the container widget

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

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
    home: Scaffold()
```

```
appBar: AppBar(
body: Center(
  child: Container(
   constraints: BoxConstraints(
     minHeight: 100,
     maxHeight: 200,
   child: Center(
      child: Text(
       style: TextStyle(
```

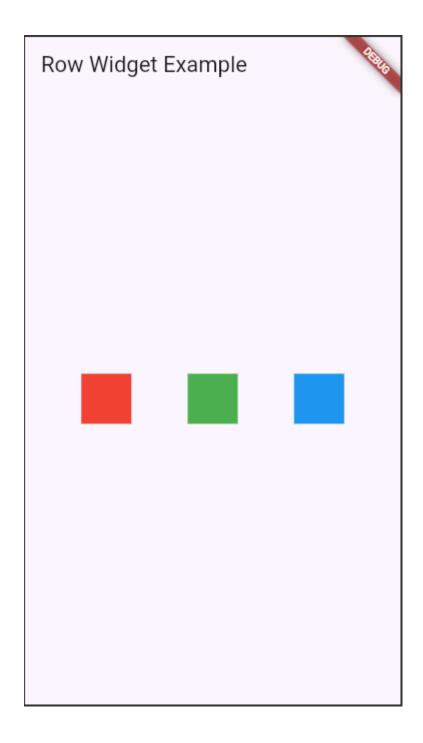


```
import 'package:flutter/material.dart';

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

class MyApp extends StatelessWidget {
```

```
@override
Widget build(BuildContext context) {
@override
Widget build(BuildContext context) {
   appBar: AppBar(
   body: Center(
       mainAxisAlignment: MainAxisAlignment.spaceEvenly,
        children: <Widget>[
         Container(
            width: 50,
           height: 50,
           height: 50,
           color: Colors.green,
           height: 50,
     ),
```



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

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

class MyApp extends StatelessWidget {
```

```
@override
Widget build(BuildContext context) {
   home: ChairmanProfile(),
   debugShowCheckedModeBanner: false,
Widget build(BuildContext context) {
   appBar: AppBar(
      title: Text('Ramaiah Chairman Profile'),
   body: Padding(
      padding: const EdgeInsets.all(16.0),
      child: Column(
       mainAxisAlignment: MainAxisAlignment.center,
       children: [
            backgroundImage: AssetImage('assets/ms ramaiah.jpg'), //
          SizedBox(height: 20),
           style: TextStyle(
             fontWeight: FontWeight.bold,
           ),
          ),
           style: TextStyle(
```

```
color: Colors.grey[600],
    ),
),

SizedBox(height: 20),

// Description
Text(
    'Mathikere Sampangi Ramaiah was born on 20 April 1922, in

Madhugiri to Sampangappa and Narasamma.',
    style: TextStyle(fontSize: 14),
    textAlign: TextAlign.center,
    ),
    ],
    ),
    ),
    ),
    ),
    ),
}
```

Ramaiah Chairman Profile



Dr. M.S. Ramaiah

Founder Chairman

Mathikere Sampangi Ramaiah was born on 20 April 1922, in Madhugiri to Sampangappa and Narasamma.

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

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

class MyApp extends StatelessWidget {
  @override
```

```
Widget build(BuildContext context) {
    home: TextButtonExample(),
    debugShowCheckedModeBanner: false,
@override
    appBar: AppBar(
    body: Center(
      child: TextButton(
        onPressed: () {
perform an action)
          print("Button Clicked!");
        child: Text('Click Me'),
```

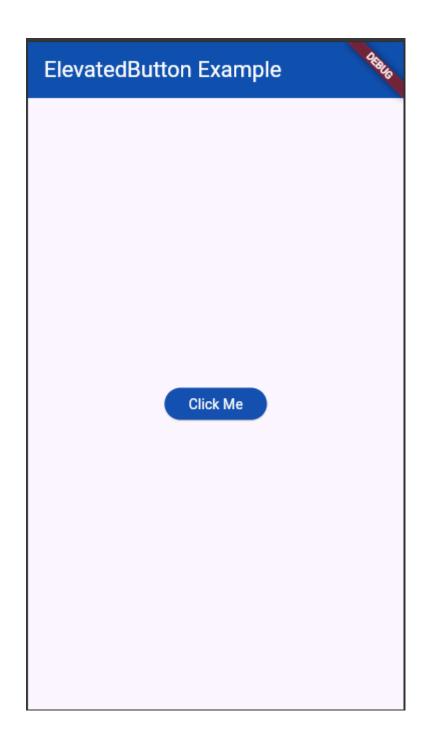


```
import 'package:flutter/material.dart';

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

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
```

```
title: 'ElevatedButton Example',
      appBar: AppBar(
       foregroundColor: Colors.white,
       backgroundColor: const Color.fromARGB(255, 19, 82, 178), //
Dark Blue AppBar
      body: Center(
       child: ElevatedButton(
         onPressed: () {
          print("Button Clicked!");
         style: ElevatedButton.styleFrom(
           backgroundColor: const Color.fromARGB(255, 23, 84, 175),
           padding: EdgeInsets.symmetric(horizontal: 24, vertical:
12),
         child: Text('Click Me'),
```

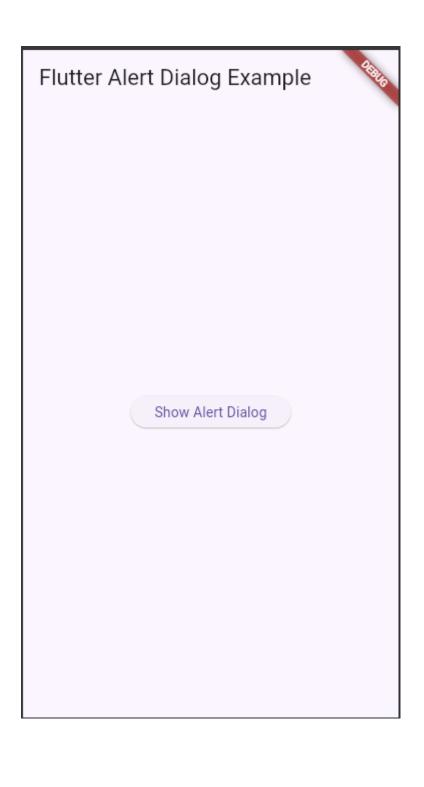


```
import 'package:flutter/material.dart';

void main() => runApp(MyApp());

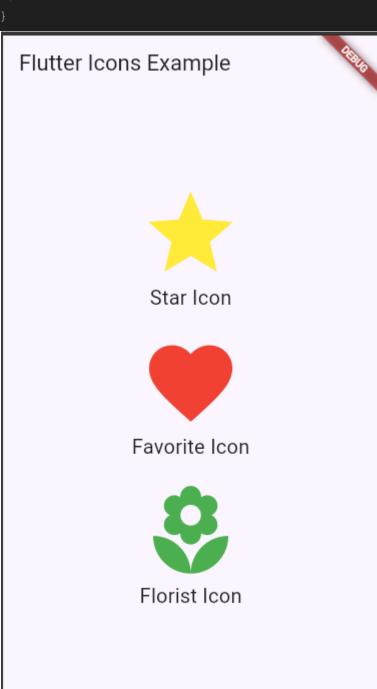
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
```

```
home: MyHomePage(),
class MyHomePage extends StatelessWidget {
void showAlertDialog(BuildContext context) {
  showDialog(
      return AlertDialog(
        content: Text("This is a basic alert dialog."),
            child: Text("Close"),
            onPressed: () {
              Navigator.of(context).pop();
@override
Widget build(BuildContext context) {
    appBar: AppBar(
    body: Center(
      child: ElevatedButton(
        onPressed: () {
          showAlertDialog(context);
        child: Text("Show Alert Dialog"),
```



Flutter Alert Dialog Example Alert Dialog This is a basic alert dialog. Close

```
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
    home: MyHomePage(),
@override
Widget build(BuildContext context) {
    appBar: AppBar(
    body: Center(
      child: Column(
        mainAxisAlignment: MainAxisAlignment.center,
        children: <Widget>[
            Icons.star,
            color: Colors.yellow,
           Text("Star Icon", style: TextStyle(fontSize: 20.0)),
           SizedBox(height: 20.0),
            size: 100.0,
            color: Colors.red,
           Text("Favorite Icon", style: TextStyle(fontSize: 20.0)),
           SizedBox(height: 20.0),
            Icons.local florist,
            size: 100.0,
            color: Colors.green,
```



```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
    home: MyHomePage(),
 @override
Widget build(BuildContext context) {
    appBar: AppBar(
    body: ListView.builder(
       itemCount: items.length,
          title: Text(items[index]),
```

Flutter List Example Item 1 Item 2 Item 3 Item 4 Item 5

```
import 'package:flutter/material.dart';
void main() {
```

```
runApp (MyApp());
class MyApp extends StatelessWidget {
Widget build(BuildContext context) {
  return MaterialApp(
class MyHomePage extends StatelessWidget {
void showToast(BuildContext context) {
  ScaffoldMessenger.of(context).showSnackBar(
      content: Text('Hello, Flutter Toast!'),
      duration: Duration(seconds: 2),
 @override
Widget build(BuildContext context) {
    appBar: AppBar(
    body: Center(
       child: ElevatedButton(
        child: Text('Show Toast'),
```



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

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

```
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
      scaffoldBackgroundColor: Colors.black, // Set background color
      primaryColor: Colors.yellow, // Set text color to yellow
class MyHomePage extends StatelessWidget {
@override
Widget build(BuildContext context) {
    appBar: AppBar(
    ),
    body: Center(
      child: Text(
        style: TextStyle(
          fontSize: 24,
          color: Colors.yellow, // Set text color explicitly
```



```
import 'package:flutter/material.dart';
import 'package:fl chart/fl chart.dart';
void main() {
runApp(MyApp());
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
    home: MyHomePage(),
class MyHomePage extends StatelessWidget {
@override
Widget build(BuildContext context) {
    appBar: AppBar(
    body: Center(
      child: PieChart(
        PieChartData(
           sections: [
             PieChartSectionData(
              value: 30,
             PieChartSectionData(
              color: Colors.green,
               title: 'Category B',
             ),
             PieChartSectionData(
              color: Colors.orange,
              value: 20,
               title: 'Category C',
             PieChartSectionData(
```

