Day 1

```
Day 1
Assignment
Date:- 05-08-2025
import 'dart:io';
void main() {
 stdout.write("Enter destination zone (XYZ / ABC / PQR): ");
 String? zone = stdin.readLineSync();
 stdout.write("Enter weight of the package (in kg): ");
 double weight = double.parse(stdin.readLineSync()!);
 double costPerKg;
 switch (zone) {
  case 'XYZ':
   costPerKg = 5.0;
   break;
  case 'ABC':
   costPerKg = 7.0;
   break;
  case 'PQR':
   costPerKg = 10.0;
   break;
  default:
   print("Error: Invalid destination zone.");
   return;
 }
 double totalCost = costPerKg * weight;
 print("Shipping cost: \$${totalCost.toStringAsFixed(2)}");
}
2.
import 'dart:io';
void main() {
 stdout.write("Enter total bill amount: ");
 double bill = double.parse(stdin.readLineSync()!);
 stdout.write("Enter number of people: ");
 int people = int.parse(stdin.readLineSync()!);
 if (people == 0) {
  print("Error: Cannot divide by zero!");
```

```
return;
 }
 double splitAmount = bill / people;
 print("Each person should pay: \$${splitAmount.toStringAsFixed(2)}");
3.
void main() {
 List<int> a = [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89];
 List<int> lessThanFive = a.where((num) => num < 5).toList();
 print("Elements less than 5: $lessThanFive");
}
4.
import 'dart:io';
void main() {
 stdout.write("Enter comma-separated numbers: ");
 String? input = stdin.readLineSync();
 List<String> items = input!.split(',').map((e) => e.trim()).toList();
 Set<String> itemSet = items.toSet();
 print("List: $items");
 print("Set: $itemSet");
```

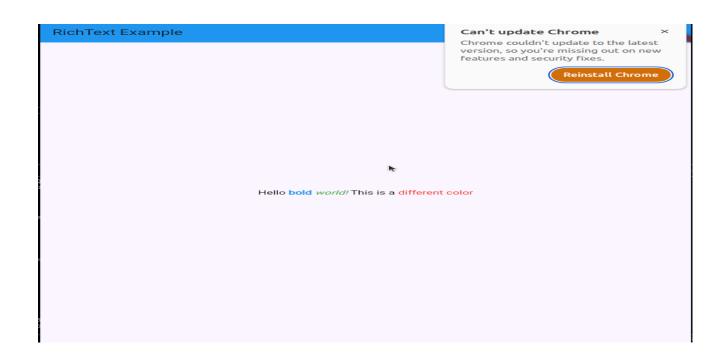
Day 2

```
Hello, World
```

```
import 'package:flutter/material.dart';
void main() {
 runApp(first_App() );
class first App extends StatelessWidget {
// This widget is the root of your application.
@override
Widget build(BuildContext context) {
  return MaterialApp(
    //Material App
    //Scaffold Widget
    home:Scaffold(
      backgroundColor:Colors.yellow,
      appBar:AppBar(
        title:const Text('Flutter Class'),
        backgroundColor:Colors.red,
      body: const Center(child:Text(
```

```
'Hello, World',
    style:TextStyle(fontSize:20))),
),
);
}
```

```
void main() {
 runApp(MyApp());
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
   return MaterialApp(
     home: Scaffold(
       appBar: AppBar(
         title: const Text('RichText Example'),
         backgroundColor: Colors.blue,
       ),
       body: Center(
         child: RichText(
           text: TextSpan(
             style: const TextStyle(
               fontSize: 16,
               color: Colors.black, // default text color
             ),
             children: <TextSpan>[
              const TextSpan(text: 'Hello '),
               const TextSpan (
                 text: 'bold ',
                 style: TextStyle(
                   fontWeight: FontWeight.bold,
                   color: Colors.blue,
                 ),
               ),
               const TextSpan(
                 style: TextStyle(
                   fontStyle: FontStyle.italic,
                   color: Colors.green,
```





Name: Jaidev Narayan Singh

USN: 1MS24AD029 Department: AI-DS

```
roid main() {
runApp(MyApp());
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
  return MaterialApp(
    home: Scaffold(
      appBar: AppBar(
        title: const Text('Jaidev Narayan Singh'),
        backgroundColor: Colors.blue,
      body: Center(
        child: Column(
          mainAxisSize: MainAxisSize.min,
          children: const [
            Text(
               'Name: Jaidev Narayan Singh',
              style: TextStyle(fontSize: 18, fontWeight:
FontWeight.w600),
```

```
),
SizedBox(height: 8),
Text('USN: 1MS24AD029', style: TextStyle(fontSize: 16)),
SizedBox(height: 4),
Text('Department: AI-DS', style: TextStyle(fontSize: 14)),
],
),
),
));
}
```

Text Positions in Flutter Top Left Corner Specific Position (100, 200) Centered Text **Bottom Right Corner**

```
roid main() {
runApp(const MyApp());
class MyApp extends StatelessWidget {
const MyApp({super.key});
@override
Widget build(BuildContext context) {
  return MaterialApp(
     title: 'Text Positions in Flutter',
    home: Scaffold(
      appBar: AppBar(
         title: const Text('Text Positions in Flutter'),
        backgroundColor: Colors.grey,
       ),
      body: Container(
        color: Colors.blue[800],
        child: Stack(
           children: const [
             Positioned(
               top: 8,
               left: 8,
              child: Text(
                 style: TextStyle(color: Colors.black),
               ),
             ),
             Positioned(
               top: 200,
              left: 100,
               child: Text(
                 'Specific Position (100, 200)',
                 style: TextStyle(color: Colors.black),
               ),
             ),
             Center (
               child: Text(
                 style: TextStyle(color: Colors.black),
               ),
             ),
             Positioned(
```

Different Font Types Example



Text with TimesNew Roman

Text with Calibri

TEXT WITH STENCIL

TEXT WITH ALGERIAN

Text with Edwardian Script ITC

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

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

  @override

Widget build(BuildContext context) {
  return MaterialApp(
    title: 'Different Font Types Example',
    home: Scaffold(
    appBar: AppBar(
    title: const Text('Different Font Types Example'),
```

```
backgroundColor: Colors.blue,
),
body: Center(
  child: Column(
    mainAxisSize: MainAxisSize.min,
    children: const [
      Text (
        style: TextStyle(
         fontFamily: 'Times New Roman',
         fontSize: 18,
         color: Colors.brown,
        ),
      ),
      SizedBox(height: 10),
      Text(
       'Text with Calibri',
        style: TextStyle(
         fontFamily: 'Calibri',
         fontSize: 18,
          color: Colors.black,
        ),
      ),
      SizedBox(height: 10),
      Text(
       'TEXT WITH STENCIL',
        style: TextStyle(
         fontFamily: 'Stencil',
         fontWeight: FontWeight.bold,
          fontSize: 18,
        ),
      ),
      SizedBox(height: 10),
      Text(
        'TEXT WITH ALGERIAN',
        style: TextStyle(fontFamily: 'Algerian', fontSize: 18),
      ),
      SizedBox(height: 10),
      Text (
        'Text with Edwardian Script ITC',
        style: TextStyle(
          fontFamily: 'Edwardian Script ITC',
          fontSize: 18,
```

Assignment

1.

```
import 'dart:math';

String generatePassword(int length) {
  const chars =
  'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789!@#\$%^&
  *()_+';
  final rand = Random();
  return List.generate(length, (index) =>
  chars[rand.nextInt(chars.length)]).join();
}

void main() {
  print('Generated Password: ${generatePassword(12)}'); // Example:
12-character password
}
```

Generated Password: bcG2*sB9*sUk

2.

```
void main() {
  List<int> numbers = [10, 23, 4, 17, 8, 2]; // Example list
  // Anonymous function inside reduce
  int sumEven = numbers.where((num) => num % 2 == 0).fold(0, (sum, num)
  => sum + num);
  print('Sum of even numbers: $sumEven');
}
Sum of even numbers: 24
```

```
String name;
String author;
double price;
// Constructor
Book(this.name, this.author, this.price);
void display() {
  print('Name: $name');
  print('Author: $author');
  print('Price: \$${price.toStringAsFixed(2)}');
void main() {
Book myBook = Book('The Alchemist', 'Paulo Coelho', 15.99);
myBook.display();
import 'package:flutter/material.dart';
void main() {
runApp (Myapplication());
class Myapplication extends StatelessWidget {
const Myapplication({super.key});
@override
Widget build(BuildContext context) {
  return MaterialApp(
    home: Scaffold(
       appBar: AppBar(title: const Text('First Flutter Application')),
```

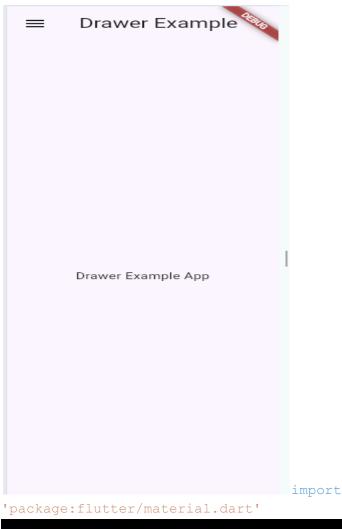
```
);
}
}
```

First Flutter Application

import

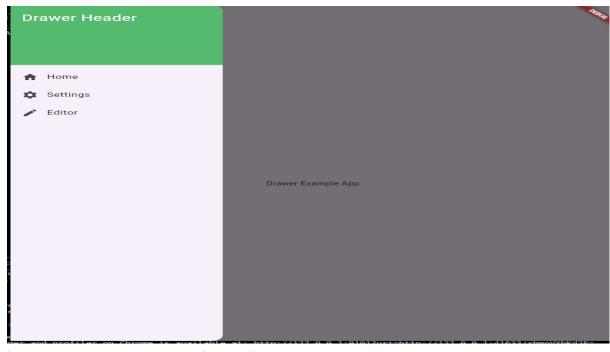
'package:flutter/material.dart'

```
color: const Color.fromARGB(255, 89, 187, 110),
            ),
           child: Text(
              style: TextStyle(color: Colors.white, fontSize: 24),
            ),
          ),
          ListTile(
           leading: Icon(Icons.home),
           title: Text('Home'),
            onTap: () => Navigator.pop(context),
          ),
          ListTile(
            leading: Icon(Icons.settings),
           title: Text('Settings'),
           onTap: () => Navigator.pop(context),
          ),
        ],
   body: Center(child: Text('Drawer Example App')),
  ),
);
```



```
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
  return MaterialApp(
    home: Scaffold(
      appBar: AppBar(title: Text('Drawer Example')),
      drawer: Drawer(
        child: ListView(
          padding: EdgeInsets.zero,
          children: <Widget>[
             DrawerHeader(
               decoration: BoxDecoration(
                 color: const Color.fromARGB(255, 89, 187, 110),
               ),
              child: Text(
```

```
style: TextStyle(color: Colors.white, fontSize: 24),
       ),
      ),
      ListTile(
       leading: Icon(Icons.home),
       title: Text('Home'),
       onTap: () => Navigator.pop(context),
      ),
      ListTile(
       leading: Icon(Icons.settings),
       title: Text('Settings'),
       onTap: () => Navigator.pop(context),
      ),
      ListTile(
        leading: Icon(Icons.edit), // corrected icon here
       title: Text('Editor'), // corrected Text widget
       onTap: () => Navigator.pop(context),
      ),
   ],
  ),
body: Center(child: Text('Drawer Example App')),
```



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: () {
          print('Button Pressed!');
         },
        child: Icon(Icons.add),
        backgroundColor: Colors.blue,
       ),
   );
```



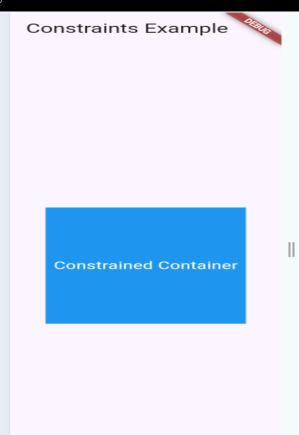
Button Pressed! Button Pressed! Button Pressed!

```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
  return MaterialApp(
      appBar: AppBar(title: Text('Container Example')),
      body: Center(
        child: Container(
          padding: EdgeInsets.all(35),
          margin: EdgeInsets.all(20),
          alignment: Alignment.bottomRight,
          transform: Matrix4.rotationZ(0.1),
           child: Text(
             "Hello! I am in the container widget",
            style: TextStyle(fontSize: 25),
         ),
```

```
Container Example

Hello! / am. in the container wields...
```

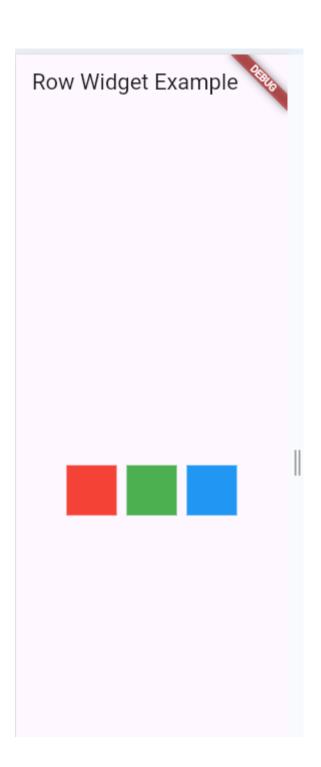
```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
  return MaterialApp(
    home: Scaffold(
      appBar: AppBar(
         title: Text('Constraints Example'),
      ),
      body: Center(
        child: Container(
          constraints: BoxConstraints(
            minWidth: 100,
            maxWidth: 200,
            minHeight: 100,
            maxHeight: 200,
           ),
           color: Colors.blue,
           child: Center(
            child: Text(
              'Constrained Container',
              style: TextStyle(
```



Exercise 1

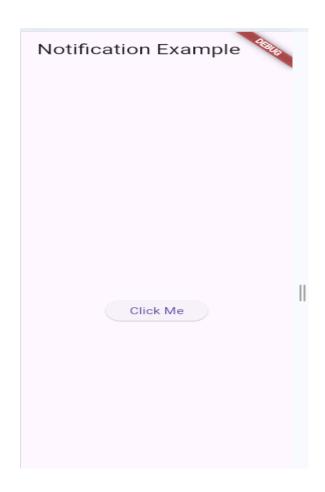
```
import 'package:flutter/material.dart';
void main() {
 runApp(MyApp());
class MyApp extends StatelessWidget {
const MyApp({super.key});
@override
Widget build(BuildContext context) {
  return MaterialApp(
     title: 'Row Widget Example',
    home: Scaffold(
       appBar: AppBar(
         title: const Text('Row Widget Example'),
      body: Center(
         child: Row(
           mainAxisAlignment: MainAxisAlignment.center, // Center
horizontally
           children: <Widget>[
            Container(
               width: 50,
              height: 50,
               color: Colors.red,
             ),
             Container (
              width: 50,
              height: 50,
              color: Colors.green,
             ),
             const SizedBox(width: 10), // spacing between boxes
             Container (
               width: 50,
               height: 50,
               color: Colors.blue,
             ),
           ],
         ),
```

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



Exercise 03

```
import 'package:flutter/material.dart';
void main() {
runApp(MyApp());
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
  return MaterialApp(
    title: 'Notification Example',
    home: Scaffold(
      appBar: AppBar(title: Text('Notification Example')),
      body: Center(
        child: ElevatedButton(
          onPressed: () {
            print("Button Clicked!");
          child: Text('Click Me'),
      ),
   );
```



Button Clicked!



```
4)
```

```
import 'package:flutter/material.dart';
void main() {
 runApp(MyApp());
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
  return MaterialApp(home: ElevatedButtonExample());
class ElevatedButtonExample extends StatelessWidget {
@override
Widget build(BuildContext context) {
   return Scaffold(
     appBar: AppBar(title: Text('ElevatedButton Example')),
    body: Center(
       child: SizedBox(
         width: 120, // Button width
        height: 50, // Button height
        child: ElevatedButton(
           onPressed: () {
             print('Button Clicked!');
           },
           style: ElevatedButton.styleFrom(
             shape: RoundedRectangleBorder(
               borderRadius: BorderRadius.circular(5), // Rounded
             backgroundColor: Colors.blue, // Background color
             foregroundColor: Colors.white, // Text color
           child: Text('Click Me'),
         ),
      ),
     ),
  );
```

```
ElevatedButton Example

Click Me
```

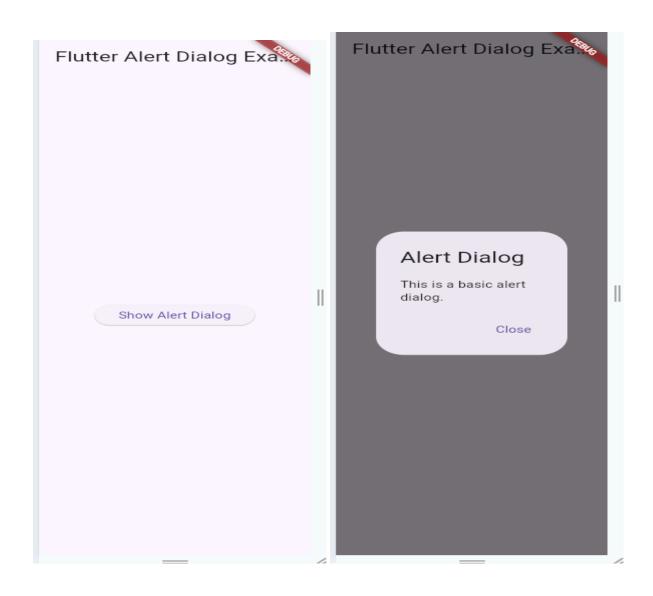
```
import 'package:flutter/material.dart';

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(
      context: context,
      builder: (BuildContext context) {
```

```
return AlertDialog(
        title: Text("Alert Dialog"),
        actions: <Widget>[
         TextButton (
            child: Text("Close"),
            onPressed: () {
             Navigator.of(context).pop();
            },
         ),
        ],
     );
    },
@override
Widget build(BuildContext context) {
 return Scaffold(
    appBar: AppBar(title: Text("Flutter Alert Dialog Example")),
   body: Center(
     child: ElevatedButton(
        onPressed: () {
         _showAlertDialog(context);
        child: Text("Show Alert Dialog"),
     ),
   ),
 );
```



```
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 {
  @override
```

```
Widget build(BuildContext context) {
   return Scaffold(
    appBar: AppBar(
       title: Text("Flutter Icons Example"),
    ),
    body: Center(
       child: Column(
        mainAxisAlignment: MainAxisAlignment.center,
        children: <Widget>[
          Icon(
            Icons.star,
            size: 100.0,
            color: Colors.yellow,
           Text("Star Icon", style: TextStyle(fontSize: 20.0)),
           SizedBox(height: 20.0),
           Icon(
            Icons.favorite,
            size: 100.0,
            color: Colors.red,
           Text("Favorite Icon", style: TextStyle(fontSize: 20.0)),
           SizedBox(height: 20.0),
           Icon(
            Icons.local florist,
            size: 100.0,
            color: Colors.green,
          Text("Florist Icon", style: TextStyle(fontSize: 20.0)),
         ],
     ),
   );
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 {
  final List<String> items = ['Item 1', 'Item 2', 'Item 3', 'Item 4',
  'Item 5'];

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(title: Text("Flutter List Example")),
    body: ListView.builder(
        itemCount: items.length,
        itemBuilder: (BuildContext context, int index) {
        return ListTile(title: Text(items[index]));
     },
    ),
   );
}
```

```
Item 1
Item 2
Item 3
Item 4
Item 5
```

```
void main() {
runApp(MyApp());
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
  return MaterialApp(
    theme: ThemeData(
       scaffoldBackgroundColor: Colors.black, // Set background color
      primaryColor: Colors.yellow, // Set text color to yellow
     ),
    home: MyHomePage(),
   );
class MyHomePage extends StatelessWidget {
@override
Widget build(BuildContext context) {
   return Scaffold(
    appBar: AppBar(title: Text('Flutter Theme Example')),
    body: Center(
      child: Text(
        style: TextStyle(
           fontSize: 24,
           color: Colors.yellow, // Set text color explicitly
        ),
       ),
   );
```

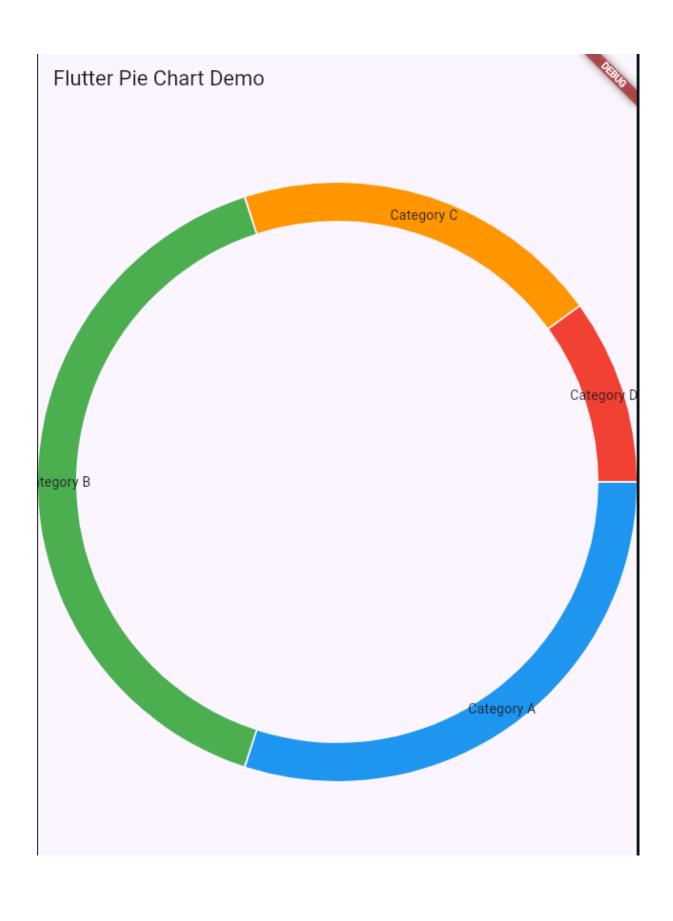
Flutter Theme Example Welcome to Flutter Themes

```
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) {
    return MaterialApp(
      home: MyHomePage(),
    );
  }
```

```
class MyHomePage extends StatelessWidget {
@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
       title: Text('Flutter Pie Chart Demo'),
    ),
    body: Center(
       child: PieChart(
         PieChartData(
           sections: [
             PieChartSectionData(
               color: Colors.blue,
              value: 30,
              title: 'Category A',
             PieChartSectionData(
              color: Colors.green,
              value: 40,
               title: 'Category B',
             ),
             PieChartSectionData(
              color: Colors.orange,
              value: 20,
               title: 'Category C',
             ),
             PieChartSectionData(
               color: Colors.red,
              value: 10,
               title: 'Category D',
            ),
           ],
         ),
      ),
    ),
   );
```



Day 3

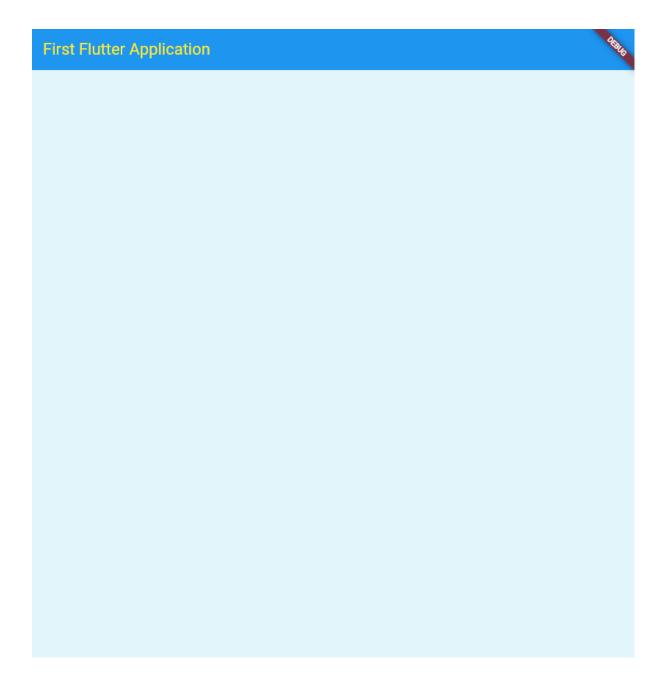
Day 3

Date:- 07-08-2025

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

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

class Myapplication extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
   return MaterialApp(
    home: Scaffold(
     backgroundColor: Colors.lightBlue[50],
     appBar: AppBar(
        title: const Text(
        'First Flutter Application',
        style: TextStyle(color: Colors.yellow),
     ),
     backgroundColor: Colors.blue,
    ),
   ),
  );
}
```



Drawer Header ♠ Home Settings Emergency contact Drawer Example App

```
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('Drawer Example'),
        ),
        drawer: Drawer(
```

```
child: ListView(
        padding: EdgeInsets.zero,
        children: <Widget>[
          DrawerHeader(
            decoration: BoxDecoration(
              color: Colors.blue,
            ),
            child: Text(
              'Drawer Header',
              style: TextStyle(
                color: Colors.white,
                fontSize: 24,
              ),
            ),
          ),
          ListTile(
            leading: Icon(Icons.home),
            title: Text('Home'),
            onTap: () => Navigator.pop(context),
          ),
          ListTile(
            leading: Icon(Icons.settings),
            title: Text('Settings'),
            onTap: () => Navigator.pop(context),
          ),
          ListTile(
            leading: Icon(Icons.contact emergency),
            title: Text('Emergency contact'),
            onTap: () => Navigator.pop(context),
          ),
        ],
      ),
    ),
    body: Center(
      child: Text('Drawer Example App'),
    ),
 ),
);
```

FloatingActionButton Example

Press the button below!



```
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,
    ),*/
    floatingActionButton: FloatingActionButton(
      onPressed: () {
        print("Voila");
      },
      child: Icon(Icons.query_stats),
      backgroundColor: Colors.yellow,
    ),
  ),
);
```



```
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
         appBar: AppBar(
         title: Text('Container Example'),
      ),
      body: Center(
      child: Container(
         padding: EdgeInsets.all(35),
```

Constraints Example Can't update Chrome Chrome couldn't update to the latest version, so you're missing out on new features and security fixes. Reinstall Chrome **Constrained Container**

```
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('Constraints Example'),
        ),
        body: Center(
```

```
child: Container(
        constraints: BoxConstraints(
         minWidth: 400,
         maxWidth: 500,
         minHeight: 300,
          maxHeight: 700,
        ),
        color: Colors.blue,
        child: Center(
          child: Text(
            'Constrained Container',
           style: TextStyle(
             color: Colors.white,
              fontSize: 18,
           ),
          ),
       ),
     ),
   ),
 ),
);
```

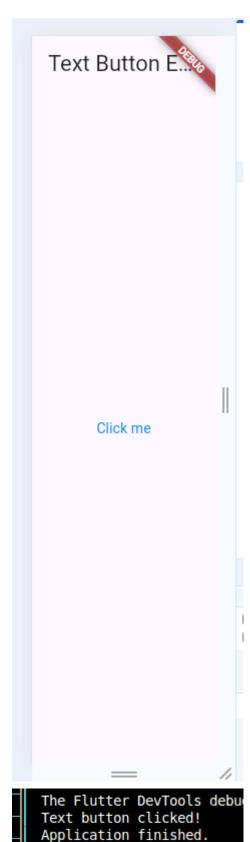
```
Row & Column Ex...
```

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

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

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

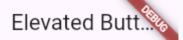
```
return MaterialApp(
  home: Scaffold(
    appBar: AppBar(title: Text('Row & Column Example')),
    body: Center(
      child: Column (
        mainAxisAlignment: MainAxisAlignment.center,
        children: [
          Row (
            mainAxisAlignment: MainAxisAlignment.center,
            children: [
              Container (
                width: 50,
                height: 50,
                color: Colors.red,
              ),
              SizedBox(width: 20),
              Container (
                width: 50,
                height: 50,
                color: Colors.green,
              SizedBox(width: 20),
              Container (
                width: 50,
                height: 50,
                color: Colors.blue,
              ),
              SizedBox(width: 20),
            ],
          ),
        ],
      ),
    ),
  ),
);
```



```
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('Text Button Example'),
     ),
     body: Center(
        child: TextButton(
         onPressed: () {
           print('Text button clicked!');
          },
          child: Text(
            'Click me',
            style: TextStyle(color: Colors.blue),
         ),
        ),
     ),
   ),
 );
```



Click me

Button pressed! Application finished.

```
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('Elevated Button Example'),
      ),
      body: Center(
        child: ElevatedButton(
          onPressed: () {
            print('Button pressed!');
          style: ElevatedButton.styleFrom(
            backgroundColor: Colors.blue,
            padding: EdgeInsets.symmetric(horizontal: 24, vertical:
12),
          ),
          child: Text(
            'Click me',
            style: TextStyle(color: Colors.white),
          ),
        ),
      ),
    ),
 );
```

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

class MyApp extends StatelessWidget {
  @override

Widget build(BuildContext context) {
  return MaterialApp(
     title: 'Chairman Profile',
     home: ChairmanProfileScreen(),
     debugShowCheckedModeBanner: false,
  );
```

```
class ChairmanProfileScreen extends StatelessWidget {
@override
Widget build(BuildContext context) {
   return Scaffold(
     appBar: AppBar(
       title: Text('Ramaiah Chairman Profile'),
      backgroundColor: Colors.blue[900],
     ),
    body: Center(
       child: Padding(
         padding: const EdgeInsets.symmetric(horizontal: 20.0,
vertical: 40.0),
         child: Column (
           mainAxisSize: MainAxisSize.min,
           children: [
            CircleAvatar(
               radius: 50,
               backgroundImage:
AssetImage('assets/images/chairman.jpg'),
             ),
             SizedBox(height: 20),
             Text(
               'Dr. M.S. Ramaiah',
               style: TextStyle(
                 fontSize: 22,
                 fontWeight: FontWeight.bold,
                 color: Colors.blue[900],
             ),
             SizedBox(height: 8),
             Text(
               'Founder Chairman',
               style: TextStyle(
                 fontSize: 16,
                 fontStyle: FontStyle.italic,
                 color: Colors.grey[700],
               ),
             ),
             SizedBox(height: 16),
             Text(
```

```
'Mathikere Sampangi Ramaiah was born on 20 April 1922 in
Madhugiri in Tumkur District and Karnataka.',
               style: TextStyle(
                 fontSize: 14,
                 color: Colors.black87,
               ),
               textAlign: TextAlign.center,
           ],
       ),
    ),
    bottomNavigationBar: BottomAppBar(
       child: Padding(
        padding: const EdgeInsets.all(12.0),
        child: Text(
           'Dept. of CS&E, MSRIT',
          textAlign: TextAlign.center,
          style: TextStyle(color: Colors.grey[600]),
      ),
   );
```

Ramaiah Chairman



Dr. M.S. Ramaiah

Founder Chairman

Mathikere Sampangi Ramaiah was born on 20 April 1922 in Madhugiri in Tumkur District and Karnataka.

Dept. of CS&E, MSRIT



```
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(
```

```
context: context,
   builder: (BuildContext context) {
      return AlertDialog(
        title: Text("Alert Dialog"),
        content: Text("This is a basic alert dialog."),
        actions: <Widget>[
          TextButton (
            child: Text("Close"),
            onPressed: () {
              Navigator.of(context).pop();
            },
          ),
        ],
      );
    },
  );
@override
Widget build(BuildContext context) {
 return Scaffold(
    appBar: AppBar(
      title: Text("Flutter Alert Dialog Example"),
    ),
   body: Center(
      child: ElevatedButton(
        onPressed: () {
         _showAlertDialog(context);
        child: Text("Show Alert Dialog"),
     ),
    ),
 );
```





Star Icon



Favorite Icon



Florist Icon

```
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 {
```

```
@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: Text("Flutter Icons Example"),
    ),
   body: Center(
      child: Column(
        mainAxisAlignment: MainAxisAlignment.center,
        children: <Widget>[
          Icon(
            Icons.star,
            size: 100.0,
            color: Colors.yellow,
          ),
          Text("Star Icon", style: TextStyle(fontSize: 20.0)),
          SizedBox(height: 20.0),
          Icon(
           Icons.favorite,
           size: 100.0,
            color: Colors.red,
          ),
          Text("Favorite Icon", style: TextStyle(fontSize: 20.0)),
          SizedBox(height: 20.0),
          Icon(
            Icons.local_florist,
           size: 100.0,
            color: Colors.green,
          Text("Florist Icon", style: TextStyle(fontSize: 20.0)),
        ],
      ),
    ),
  );
```

```
Item 1
Item 2
Item 3
Item 4
Item 5
```

```
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 {
```

```
final List<String> items = [
  'Item 1',
 'Item 2',
 'Item 3',
 'Item 4',
  'Item 5',
];
@override
Widget build(BuildContext context) {
 return Scaffold(
   appBar: AppBar(
     title: Text("Flutter List Example"),
    ),
   body: ListView.builder(
      itemCount: items.length,
     itemBuilder: (BuildContext context, int index) {
        return ListTile(
         title: Text(items[index]),
       );
      },
   ),
 );
```

```
Flutter Toast Examp.
        Show Toast
Hello, Flutter Toast!
```

```
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 showToast(BuildContext context) {
  ScaffoldMessenger.of(context).showSnackBar(
    SnackBar (
       content: Text('Hello, Flutter Toast!'),
       duration: Duration(seconds: 2),
    ),
   );
 }
@override
Widget build(BuildContext context) {
   return Scaffold(
    appBar: AppBar(
       title: Text('Flutter Toast Example'),
    ),
    body: Center(
       child: ElevatedButton(
        onPressed: () => showToast(context),
        child: Text('Show Toast'),
      ),
    ),
  );
```

Flutter Theme Exam. Welcome to Flutter Themes

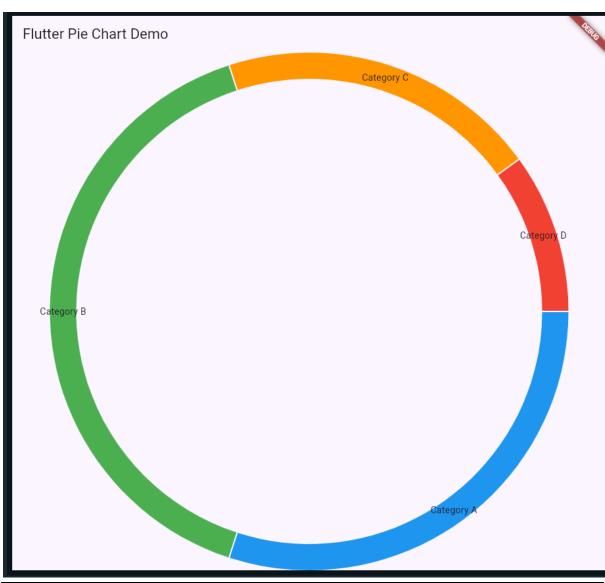
```
import 'package:flutter/material.dart';

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

class MyApp extends StatelessWidget {
   @override
   Widget build(BuildContext context) {
      return MaterialApp(
            theme: ThemeData(
            scaffoldBackgroundColor: Colors.black, // Set background color

to black
      primaryColor: Colors.yellow, // Set text color to yellow
```

```
),
     home: MyHomePage(),
   );
}
class MyHomePage extends StatelessWidget {
@override
Widget build(BuildContext context) {
  return Scaffold(
     appBar: AppBar(
       title: Text('Flutter Theme Example'),
     ),
    body: Center(
       child: Text(
         'Welcome to Flutter Themes',
         style: TextStyle(
          fontSize: 24,
           color: Colors.yellow, // Set text color explicitly
         ),
       ),
    ),
  );
```



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

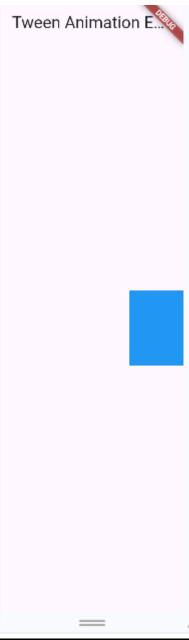
void main() {
   runApp(MyApp());
}

class MyApp extends StatelessWidget {
   @override

Widget build(BuildContext context) {
   return MaterialApp(
     home: MyHomePage(),
    );
}
```

```
class MyHomePage extends StatelessWidget {
@override
Widget build(BuildContext context) {
   return Scaffold(
    appBar: AppBar(
       title: Text('Flutter Pie Chart Demo'),
    ),
    body: Center(
       child: PieChart(
         PieChartData(
           sections: [
             PieChartSectionData(
               color: Colors.blue,
              value: 30,
               title: 'Category A',
             ),
             PieChartSectionData(
              color: Colors.green,
              value: 40,
               title: 'Category B',
             PieChartSectionData(
               color: Colors.orange,
              value: 20,
               title: 'Category C',
             ),
             PieChartSectionData(
              color: Colors.red,
              value: 10,
               title: 'Category D',
             ),
           ],
         ),
      ),
    ),
  );
```

Day 4



```
import 'package:flutter/material.dart';
void main() {
  runApp(MyApp());
}
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
  return MaterialApp(
  home: TweenAnimationExample(),
  );
}
class TweenAnimationExample extends StatefulWidget {
```

```
@override
TweenAnimationExampleState createState() =>
TweenAnimationExampleState();
class    TweenAnimationExampleState    extends    State<TweenAnimationExample>
with SingleTickerProviderStateMixin {
late AnimationController controller;
late Animation<Offset> _animation;
@override
void initState() {
super.initState();
controller = AnimationController(
duration: Duration(seconds: 3),
vsync: this,
);
animation = Tween<Offset>(
begin: Offset(0, 0), // start position
end: Offset(1, 0), // end position (move to the right)
).animate(CurvedAnimation(
parent: controller,
curve: Curves.easeInOut, // smooth transition curve
));
controller.forward();
@override
void dispose() {
controller.dispose();
super.dispose();
@override
Widget build(BuildContext context) {
return Scaffold(
appBar: AppBar(
title: Text('Tween Animation Example'),
body: Center(
child: SlideTransition(
position: animation, // Use the Tween animation here
child: Container(
```

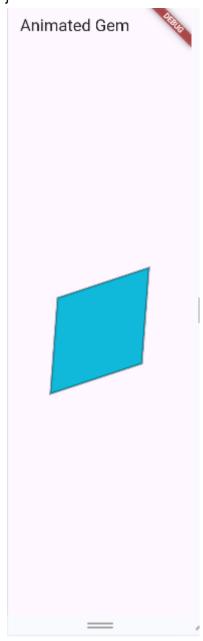
```
width: 100,
height: 100,
color: Colors.blue,
),
),
);
}
```



```
import 'package:flutter/material.dart';
void main() {
runApp(MyApp());
}
class MyApp extends StatelessWidget {
```

```
@override
Widget build(BuildContext context) {
return MaterialApp(
title: 'Tween Animation Example',
theme: ThemeData(
primarySwatch: Colors.blue,
),
home: TweenAnimationPage(title: 'Tween Animation Page'),
);
}
}
class TweenAnimationPage extends StatefulWidget {
TweenAnimationPage({Key? key, required this.title}) : super(key: key);
final String title;
@override
_TweenAnimationPageState createState() => _TweenAnimationPageState();
class _TweenAnimationPageState extends State<TweenAnimationPage>
with TickerProviderStateMixin {
late AnimationController _simpleAnimController;
late Animation<double> _simpleAnim;
@override
void initState() {
super.initState();
_simpleAnimController = AnimationController(vsync: this, duration:
Duration(milliseconds: 1000))
..addListener(() => setState(() {}))
..addStatusListener((animStatus) {
if (animStatus == AnimationStatus.completed)
simpleAnimController.reverse();
if (animStatus == AnimationStatus.dismissed)
_simpleAnimController.forward();
});
_simpleAnim = Tween<double>(
begin: 50,
end: 300,
).animate(_simpleAnimController);
_simpleAnimController.forward();
@override
Widget build(BuildContext context) {
return Scaffold(
appBar: AppBar(
title: Text(widget.title),
body: Stack(children: <Widget>[
Center(
```

```
child: Padding(
  padding: EdgeInsets.only(top: _simpleAnim.value),
  child: Container(
  width: 100,
  height: 100,
  child: FlutterLogo(),
  ),
  ),
  ),
  ),
  ),
  ));
}
```



import 'package:flutter/material.dart';

```
Assignment
```

```
void main() {
 runApp(const MyApp());
}
class MyApp extends StatelessWidget {
 const MyApp({super.key});
 @override
 Widget build(BuildContext context) {
  return MaterialApp(
   title: 'Animated Gem',
   theme: ThemeData(
    primarySwatch: Colors.blue,
    visualDensity: VisualDensity.adaptivePlatformDensity,
   home: const DiamondAnimationPage(),
  );
}
}
class DiamondAnimationPage extends StatefulWidget {
 const DiamondAnimationPage({super.key});
 @override
 _DiamondAnimationPageState createState() => _DiamondAnimationPageState();
class DiamondAnimationPageState extends State<DiamondAnimationPage>
  with TickerProviderStateMixin {
 late AnimationController _controller;
 late Animation<double> _sizeAnimation;
 late Animation<double> _rotationAnimation;
 late Animation<Color?> _colorAnimation;
 @override
 void initState() {
  super.initState();
  _controller = AnimationController(
   vsync: this,
   duration: const Duration(seconds: 2),
  )
   ..addListener(() {
    setState(() {});
   })
   ..addStatusListener((status) {
    if (status == AnimationStatus.completed) {
      controller.reverse();
```

```
} else if (status == AnimationStatus.dismissed) {
     controller.forward();
  });
 _sizeAnimation = Tween<double>(begin: 1.0, end: 1.5).animate(
  CurvedAnimation(
   parent: controller,
   curve: Curves.easeInOut,
  ),
 );
 _rotationAnimation = Tween<double>(begin: 0, end: 0.7854).animate(
  CurvedAnimation(
   parent: controller,
   curve: Curves.easeInOut,
  ),
 );
 _colorAnimation = ColorTween(
  begin: Colors.blue.shade300,
  end: Colors.cyanAccent.shade700,
 ).animate(
  CurvedAnimation(
   parent: _controller,
   curve: Curves.easeInOut,
  ),
 );
 _controller.forward();
@override
void dispose() {
 _controller.dispose();
 super.dispose();
}
@override
Widget build(BuildContext context) {
 return Scaffold(
  appBar: AppBar(
   title: const Text('Animated Gem'),
  ),
  body: Center(
   child: Transform.rotate(
    angle: _rotationAnimation.value,
    child: Transform.scale(
```

```
scale: _sizeAnimation.value,
       child: CustomPaint(
         size: const Size(100, 150), // Width 100, Height 150 for a taller diamond
         painter: DiamondPainter(_colorAnimation.value!),
       ),
      ),
    ),
   ),
class DiamondPainter extends CustomPainter {
 final Color color;
 DiamondPainter(this.color);
 @override
 void paint(Canvas canvas, Size size) {
  final Paint fillPaint = Paint()
   ..color = color
   ..style = PaintingStyle.fill;
  final Path path = Path();
  path.moveTo(size.width / 2, 0); // Top point
  path.lineTo(size.width, size.height / 2); // Right point
  path.lineTo(size.width / 2, size.height); // Bottom point
  path.lineTo(0, size.height / 2); // Left point
  path.close();
  canvas.drawPath(path, fillPaint);
  // Optional: Add a subtle border for definition
  final Paint borderPaint = Paint()
   ..color = Colors.black.withOpacity(0.3)
   ..style = PaintingStyle.stroke
   ..strokeWidth = 2.0;
  canvas.drawPath(path, borderPaint);
 }
 @override
 bool shouldRepaint(covariant DiamondPainter oldDelegate) {
  return oldDelegate.color != color;
}
}
```

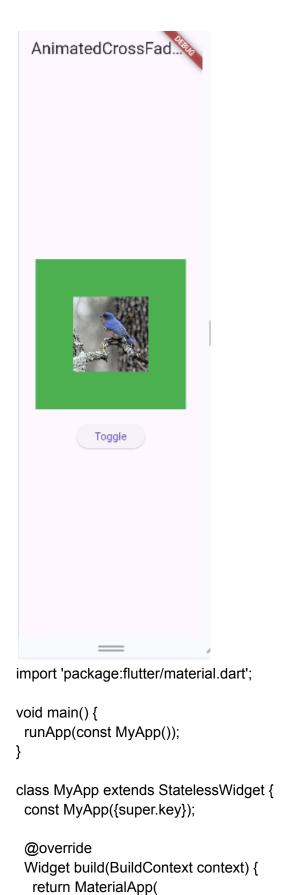


appBar: AppBar(title: const Text('AnimatedContainer Sample')),

body: const AnimatedContainerExample(),

),

```
);
}
class AnimatedContainerExample extends StatefulWidget {
 const AnimatedContainerExample({super.key});
 @override
 State<AnimatedContainerExample> createState() => _AnimatedContainerExampleState();
}
class _AnimatedContainerExampleState extends State<AnimatedContainerExample> {
 bool selected = false;
 @override
 Widget build(BuildContext context) {
  return GestureDetector(
   onTap: () {
    setState(() {
      selected = !selected;
    });
   },
   child: Center(
    child: AnimatedContainer(
      width: selected ? 200.0: 100.0,
      height: selected ? 100.0 : 200.0,
      color: selected? Colors.red: Colors.blue,
      alignment: selected ? Alignment.center : AlignmentDirectional.topCenter,
      duration: const Duration(seconds: 2),
      curve: Curves.fastOutSlowIn,
      child: const FlutterLogo(size: 75),
   ),
  );
```



title: 'CrossFade Transition',

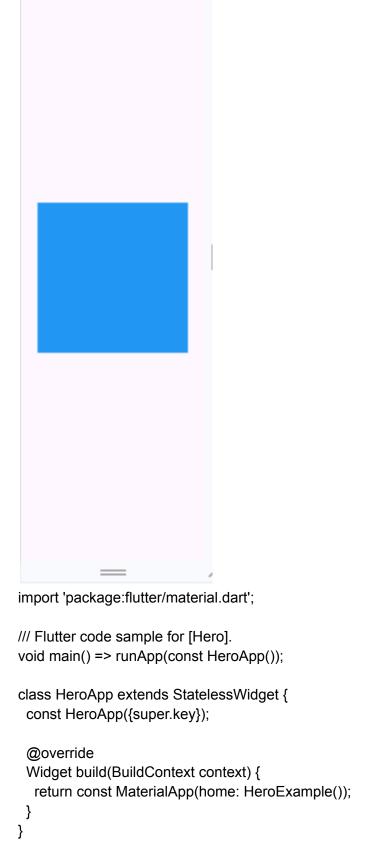
primarySwatch: Colors.blue,

theme: ThemeData(

```
),
   home: const AnimatedCrossFadePage(),
  );
}
}
class AnimatedCrossFadePage extends StatefulWidget {
 const AnimatedCrossFadePage({super.key});
 @override
 _AnimatedCrossFadePageState createState() => _AnimatedCrossFadePageState();
class _AnimatedCrossFadePageState extends State<AnimatedCrossFadePage> {
 bool showText = true; // Variable to toggle between text and image
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(
    title: const Text('AnimatedCrossFade Example'),
   ),
   body: Center(
    child: Column(
      mainAxisAlignment: MainAxisAlignment.center,
      children: <Widget>[
       AnimatedCrossFade(
        firstChild: Container(
         color: Colors.blue,
         width: 200,
         height: 200,
         child: const Center(
           child: Text(
            'Hello, Flutter!',
            style: TextStyle(color: Colors.white, fontSize: 20),
          ),
         ),
        ),
        secondChild: Container(
         color: Colors.green,
         width: 200,
         height: 200,
         child: Center(
           child: Image.network(
            'https://www.gstatic.com/flutter-onestack-prototype/genui/example 1.jpg',
            width: 100,
            height: 100,
           ),
```

```
),
),
crossFadeState:
__showText ? CrossFadeState.showFirst : CrossFadeState.showSecond,
duration: const Duration(seconds: 1),
),
const SizedBox(height: 20),
ElevatedButton(
onPressed: () {
    setState(() {
        _showText = !_showText;
    });
},
child: const Text('Toggle'),
),
],
),
),
),
);
}
```

Second Page

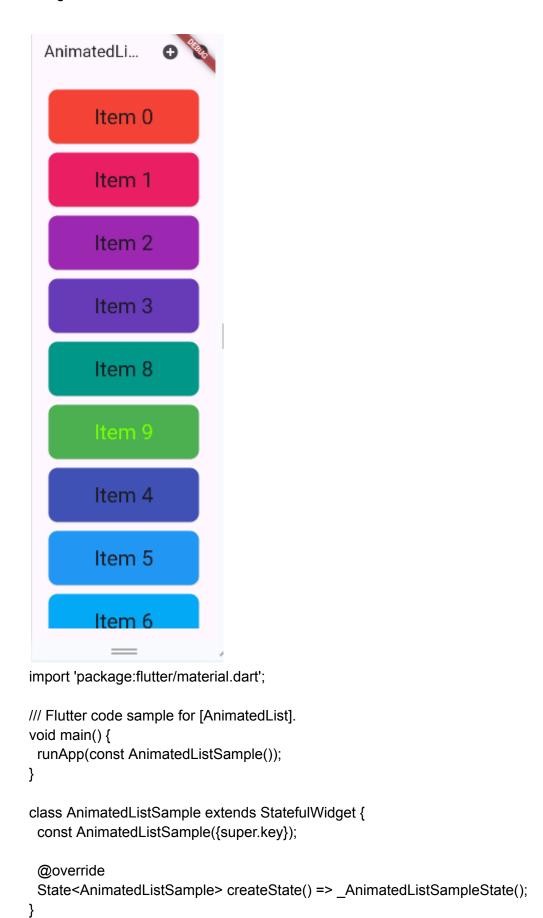


class HeroExample extends StatelessWidget {

```
const HeroExample({super.key});
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(title: const Text('Hero Sample')),
   body: Column(
     crossAxisAlignment: CrossAxisAlignment.start,
     children: <Widget>[
      const SizedBox(height: 20.0),
      ListTile(
       leading: const Hero(
        tag: 'hero-rectangle',
        child: BoxWidget(size: Size(50.0, 50.0)),
       onTap: () => _gotoDetailsPage(context),
       title: const Text('Tap on the icon to view hero animation transition.'),
      ),
    ],
   ),
  );
 void _gotoDetailsPage(BuildContext context) {
  Navigator.of(context).push<void>(
   MaterialPageRoute<void>(
     builder: (BuildContext context) => Scaffold(
      appBar: AppBar(title: const Text('Second Page')),
      body: const Center(
       child: Hero(
        tag: 'hero-rectangle',
        child: BoxWidget(size: Size(200.0, 200.0)),
       ),
      ),
    ),
class BoxWidget extends StatelessWidget {
 const BoxWidget({super.key, required this.size});
 final Size size;
 @override
 Widget build(BuildContext context) {
  return Container(width: size.width, height: size.height, color: Colors.blue);
```

```
}
  Out of Box Animation
import 'package:flutter/material.dart';
void main() {
 runApp(MyApp());
class MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
  return MaterialApp(
   home: OutOfBoxAnimationPage(),
  );
 }
```

```
}
class OutOfBoxAnimationPage extends StatefulWidget {
 @override
 OutOfBoxAnimationPageState createState() => OutOfBoxAnimationPageState();
class OutOfBoxAnimationPageState extends State<OutOfBoxAnimationPage> {
 double _leftPosition = 50.0; // Starting position of the box
 bool isOutOfBox = false;
 void _moveOutOfBox() {
  setState(() {
   _isOutOfBox = !_isOutOfBox;
   if ( isOutOfBox) {
    // Move the box out of the container to the right edge
    _leftPosition = MediaQuery.of(context).size.width;
   } else {
    // Bring the box back inside the container
     _leftPosition = 50.0;
 });
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(
    title: Text('Out of Box Animation'),
   ),
   body: Center(
    child: GestureDetector(
      onTap: moveOutOfBox,
      child: SizedBox(
       width: double.infinity,
       height: 400, // enough height for positioning
       child: Stack(
        children: [
         AnimatedPositioned(
           duration: Duration(seconds: 2),
           curve: Curves.easeInOut,
           left: _leftPosition,
           top: 150.0,
           child: Container(
            width: 100,
            height: 100,
            color: Colors.blue,
            child: Center(
```



class _AnimatedListSampleState extends State<AnimatedListSample> {

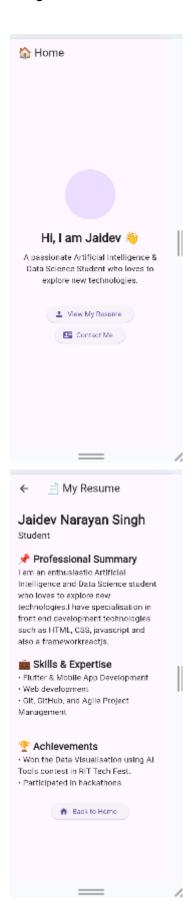
```
final GlobalKey<AnimatedListState> _listKey = GlobalKey<AnimatedListState>();
late ListModel<int> _list;
int? selectedItem;
late int _nextItem; // The next item inserted when the user presses the '+' button.
@override
void initState() {
 super.initState();
 list = ListModel<int>(
  listKey: listKey,
  initialItems: <int>[0, 1, 2],
  removedItemBuilder: buildRemovedItem,
 );
 _nextItem = 3;
// Used to build list items that haven't been removed.
Widget buildItem(BuildContext context, int index, Animation<double> animation) {
 return CardItem(
  animation: animation,
  item: list[index],
  selected: _selectedItem == _list[index],
  onTap: () {
   setState(() {
     _selectedItem = _selectedItem == _list[index] ? null : _list[index];
   });
  },
);
/// The builder function used to build items that have been removed.
/// Used to build an item after it has been removed from the list. This method
/// is needed because a removed item remains visible until its animation has
/// completed (even though it's gone as far as this ListModel is concerned).
/// The widget will be used by the [AnimatedListState.removeItem] method's
/// [AnimatedRemovedItemBuilder] parameter.
Widget _buildRemovedItem(int item, BuildContext context, Animation<double> animation) {
 return CardItem(
  animation: animation,
  item: item,
  // No gesture detector here: we don't want removed items to be interactive.
 );
}
// Insert the "next item" into the list model.
void _insert() {
 final int index = selectedItem == null ? list.length : list.indexOf( selectedItem!);
```

```
_list.insert(index, _nextItem);
 _nextItem++;
// Remove the selected item from the list model.
void _remove() {
 if (_selectedItem != null) {
  _list.removeAt(_list.indexOf(_selectedItem!));
  setState(() {
    _selectedItem = null;
  });
 }
}
@override
Widget build(BuildContext context) {
 return MaterialApp(
  home: Scaffold(
    appBar: AppBar(
     title: const Text('AnimatedList Example'),
     actions: <Widget>[
      IconButton(
        icon: const lcon(lcons.add_circle),
       onPressed: _insert,
       tooltip: 'Insert a new item',
      ),
      IconButton(
       icon: const lcon(lcons.remove_circle),
       onPressed: _remove,
       tooltip: 'Remove the selected item',
      ),
     ],
    ),
    body: Padding(
     padding: const EdgeInsets.all(16.0),
     child: AnimatedList(
      key: _listKey,
      initialItemCount: _list.length,
      itemBuilder: _buildItem,
     ),
   ),
  ),
}
```

typedef RemovedItemBuilder<T> = Widget Function(T item, BuildContext context, Animation<double> animation);

```
/// Keeps a Dart [List] in sync with an [AnimatedList].
///
/// The [insert] and [removeAt] methods apply to both the internal list and
/// the animated list that belongs to [listKey].
/// This class only exposes as much of the Dart List API as is needed by the
/// sample app. More list methods are easily added, however methods that
/// mutate the list must make the same changes to the animated list in terms
/// of [AnimatedListState.insertItem] and [AnimatedListState.removeItem].
class ListModel<E> {
 ListModel({
  required this.listKey,
  required this.removedItemBuilder,
  Iterable<E>? initialItems,
 }) : _items = List<E>.from(initialItems ?? <E>[]);
 final GlobalKey<AnimatedListState> listKey;
 final RemovedItemBuilder<E> removedItemBuilder;
 final List<E>_items;
 AnimatedListState? get _animatedList => listKey.currentState;
 void insert(int index, E item) {
  _items.insert(index, item);
  _animatedList!.insertItem(index);
 E removeAt(int index) {
  final E removedItem = items.removeAt(index);
  _animatedList!.removeItem(
   index,
   (BuildContext context, Animation<double> animation) {
     return removedItemBuilder(removedItem, context, animation);
   },
  );
  return removedItem;
 int get length => _items.length;
 E operator [](int index) => _items[index];
 int indexOf(E item) => _items.indexOf(item);
}
/// Displays its integer item as 'item N' on a Card whose color is based on
/// the item's value.
```

```
///
/// The text is displayed in bright green if [selected] is
/// true. This widget's height is based on the [animation] parameter, it
/// varies from 0 to 128 as the animation varies from 0.0 to 1.0.
class CardItem extends StatelessWidget {
 const CardItem({
  super.key,
  this.onTap,
  this.selected = false,
  required this.animation,
  required this.item,
 }) : assert(item >= 0);
 final Animation<double> animation;
 final VoidCallback? onTap;
 final int item;
 final bool selected;
 @override
 Widget build(BuildContext context) {
  TextStyle textStyle = Theme.of(context).textTheme.headlineMedium!;
  if (selected) {
   textStyle = textStyle.copyWith(color: Colors.lightGreenAccent[400]);
  }
  return Padding(
   padding: const EdgeInsets.all(2.0),
   child: SizeTransition(
     sizeFactor: animation,
     child: GestureDetector(
      behavior: HitTestBehavior.opaque,
      onTap: onTap,
      child: SizedBox(
       height: 80.0,
       child: Card(
         color: Colors.primaries[item % Colors.primaries.length],
        child: Center(
          child: Text(
           'Item $item',
           style: textStyle,
          ),
        ),
```





main.dart

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

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

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        return MaterialApp(
            debugShowCheckedModeBanner: false,
            title: 'Jaidev',
            theme: ThemeData(primarySwatch: Colors.teal),

// Step 1: Set initial route
    initialRoute: '/',
```

```
// Step 2: Define all named routes
routes: {
    '/': (context) => HomeScreen(),
    '/about': (context) => AboutScreen(),
    '/contact': (context) => ContactScreen(),
},
);
}
```

home_screen.dart

```
import 'package:flutter/material.dart';
class HomeScreen extends StatelessWidget {
@override
Widget build(BuildContext context) {
 return Scaffold(
   appBar: AppBar(title: Text(' home')),
   body: Padding (
      padding: const EdgeInsets.all(16.0),
      child: Column (
       mainAxisAlignment: MainAxisAlignment.center,
       children: [
         CircleAvatar(
            radius: 50,
            backgroundImage: AssetImage('assets/profile.jpg'), //
Optional profile photo
          ),
         SizedBox(height: 20),
          Text(
           "Hi, I am Jaidev 👋",
           style: TextStyle(fontSize: 24, fontWeight:
FontWeight.bold),
          ),
          SizedBox(height: 10),
          Text(
            "A passionate Artificial Intelligence & Data Science
Student who loves to explore new technologies.",
           style: TextStyle(fontSize: 16),
           textAlign: TextAlign.center,
```

```
SizedBox(height: 40),
ElevatedButton.icon(
    onPressed: () => Navigator.pushNamed(context, '/about'),
    icon: Icon(Icons.person),
    label: Text("View My Resume"),
),
SizedBox(height: 10),
ElevatedButton.icon(
    onPressed: () => Navigator.pushNamed(context, '/contact'),
    icon: Icon(Icons.contact_mail),
    label: Text("Contact Me"),
),
),
),
),
),
),
),
),
```

about_Screen.dart

```
import 'package:flutter/material.dart';
class AboutScreen extends StatelessWidget {
@override
Widget build(BuildContext context) {
 return Scaffold(
   appBar: AppBar(title: Text(' My Resume')),
   body: Padding(
     padding: const EdgeInsets.all(16.0),
     child: SingleChildScrollView(
       child: Column (
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
          Text("Jaidev Narayan Singh", style: TextStyle(fontSize: 26,
fontWeight: FontWeight.bold)),
          Text("Student", style: TextStyle(fontSize: 18)),
          SizedBox(height: 20),
          20, fontWeight: FontWeight.bold)),
          Text (
```

```
"I am an enthusiastic Artificial Intelligence and Data
Science student who loves to explore new technologies."
              "I have specialisation in front end development
technologies such as HTML, CSS, javascript and also a framework"
              "reactjs.",
              style: TextStyle(fontSize: 16),
            SizedBox(height: 20),
            Text(" Skills & Expertise", style: TextStyle(fontSize:
20, fontWeight: FontWeight.bold)),
            Text (
              "• Flutter & Mobile App Development\n"
              "• Web development\n"
              "• Git, GitHub, and Agile Project Management\n",
              style: TextStyle(fontSize: 16),
            SizedBox(height: 20),
            Text("Y Achievements", style: TextStyle (fontSize: 20,
fontWeight: FontWeight.bold)),
            Text (
RIT Tech Fest.\n"
              "• Participated in hackathons.",
              style: TextStyle(fontSize: 16),
            SizedBox(height: 30),
            Center (
              child: ElevatedButton.icon(
               onPressed: () => Navigator.pop(context),
                icon: Icon(Icons.home),
                label: Text("Back to Home"),
              ),
            ),
         ],
        ),
      ),
```

contact_screen.dart

```
import 'package:flutter/material.dart';
class ContactScreen extends StatelessWidget {
Widget build(BuildContext context) {
 return Scaffold(
   appBar: AppBar(title: Text(' Contact Me')),
   body: Padding(
      padding: const EdgeInsets.all(16.0),
     child: Column(
       children: [
         Text (
            "Get in Touch",
           style: TextStyle(fontSize: 24, fontWeight:
FontWeight.bold),
          ),
          Divider(),
         SizedBox(height: 10),
          ListTile(
            leading: Icon(Icons.email, color: Colors.teal),
           title: Text("123xyz@example.com"),
          ),
          ListTile(
            leading: Icon(Icons.phone, color: Colors.teal),
          ),
          ListTile(
            leading: Icon(Icons.location on, color: Colors.teal),
            title: Text("Bengaluru, India"),
          ),
          Spacer(),
          ElevatedButton.icon(
            onPressed: () => Navigator.pop(context),
           icon: Icon(Icons.home),
            label: Text("Back to Home"),
          ),
        ],
```

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