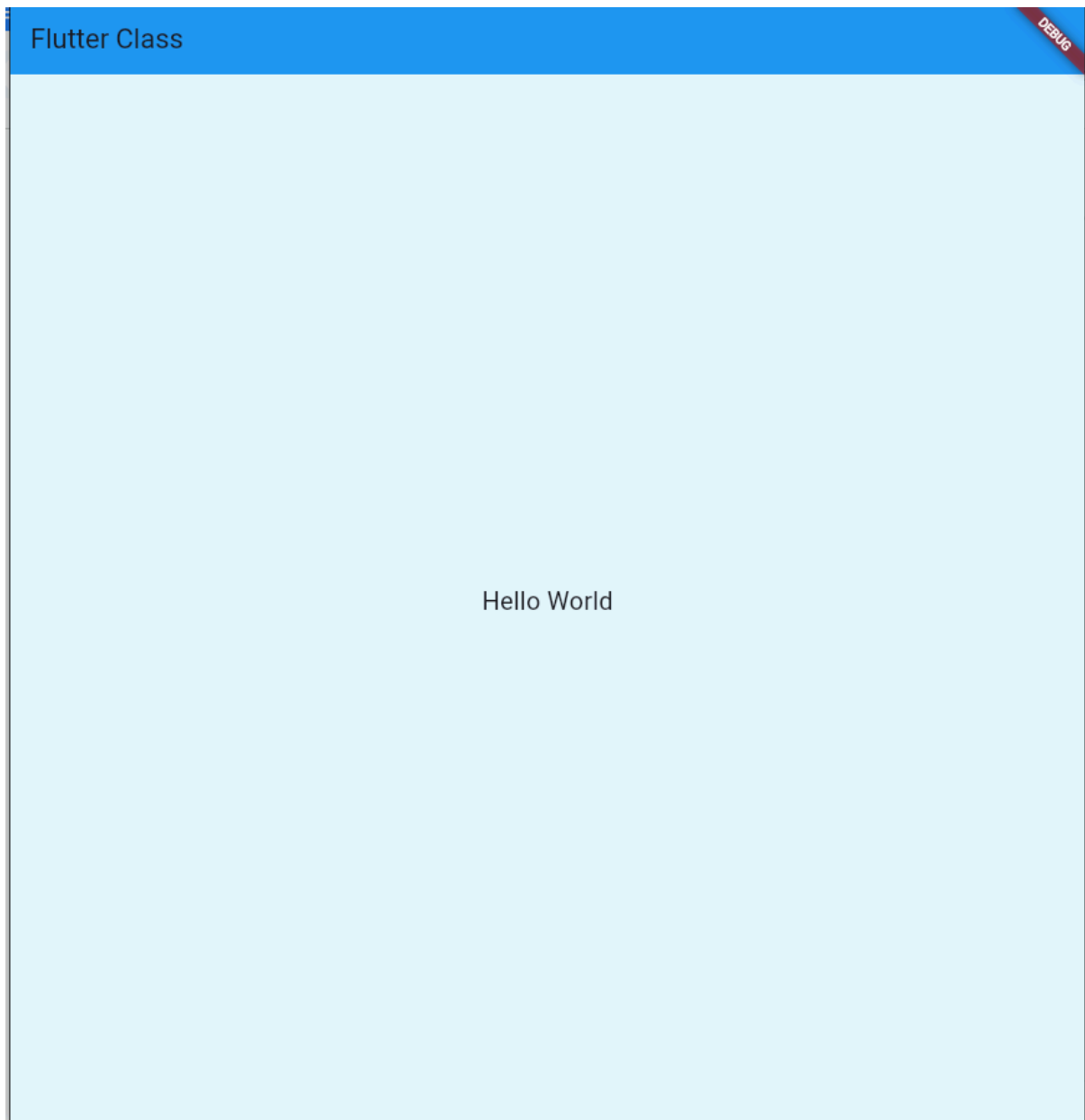


Assignment1

```
import 'package:flutter/material.dart';
void main() {
  runApp(FirstApp());
}
class FirstApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // Material App
    return MaterialApp(
      home: Scaffold(
        backgroundColor: Colors.lightBlue[50]    appBar: AppBar(
          title: const Text('Flutter Class'),
          backgroundColor: Colors.blue,
        ),
        body: const Center(
          child: Text(
            'Hello World',
            style: TextStyle(fontSize: 20),      ),
        ),
      ),
    );
  }
}
```



Question 1

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

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

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

```

appBar: AppBar(
  backgroundColor: Colors.pink[400],
  elevation: 2,
  automaticallyImplyLeading: false,
  // Using flexibleSpace for custom layout
  flexibleSpace: Stack(
    children: [
      Align(
        alignment: Alignment.centerLeft,
        child: Padding(
          padding: const EdgeInsets.only(left: 12.0, top: 32),
          child: Text(
            'uzma',
            style: TextStyle(
              color: Colors.white,
              fontSize: 18,
              fontWeight: FontWeight.normal,
            ),
          ),
        ),
      ),
      Align(
        alignment: Alignment.topRight,
        child: Padding(
          padding: const EdgeInsets.only(right: 4.0, top: 6.0),
          child: Transform.rotate(
            angle: 0.7, // rotates the badge
            child: Container(
              color: Colors.redAccent,
              padding: const EdgeInsets.symmetric(vertical: 2, horizontal: 8),
              child: const Text(
                'DEMO',
                style: TextStyle(
                  color: Colors.white,
                  fontSize: 10,
                  fontWeight: FontWeight.bold,
                  letterSpacing: 1,
                ),
              ),
            ),
          ),
        ),
      ),
    ],
  ),
  toolbarHeight: 40,
),
body: Container(

```

```
color: Colors.yellow,
width: double.infinity,
height: double.infinity,
child: const Center(
  child: Text(
    'Hello World',
    style: TextStyle(
      fontSize: 32,
      fontWeight: FontWeight.bold,
      fontStyle: FontStyle.italic,
      color: Colors.black87,
    ),
  ),
),
),
),
),
);
}
```



Question 2

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

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

```
class FirstApp extends StatelessWidget {  
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      debugShowCheckedModeBanner: false, // Hide debug banner for a clean look
```

```

home: Scaffold(
  appBar: AppBar(
    backgroundColor: Colors.blue,
    title: const Text('RichText Example'),
    flexibleSpace: null, // No badge in this sample, similar to your screenshot
  ),
  body: Center(
    child: RichText(
      text: TextSpan(
        text: 'Hello ',
        style: TextStyle(fontSize: 16, color: Colors.black), // Default style
        children: <TextSpan>[
          TextSpan(
            text: 'bold ',
            style: TextStyle(
              fontWeight: FontWeight.bold,
              color: Colors.teal,
            ),
          ),
          TextSpan(
            text: 'world! ',
            style: TextStyle(
              fontStyle: FontStyle.italic,
              color: Colors.green,
            ),
          ),
          TextSpan(
            text: 'This is a ',
            style: TextStyle(
              color: Colors.black,
            ),
          ),
          TextSpan(
            text: 'different color',
            style: TextStyle(
              color: Colors.redAccent,
            ),
          ),
        ],
      ),
    ),
  );
}

```

RichText Example

Hello **bold** *world!* This is a **different color**

Question 3

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

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

class FirstApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      home: Scaffold(
        body: Container(
          width: double.infinity,
          height: double.infinity,
          child: Column(
            children: [
              Stack(
                children: [
                  // Top blue bar with your name
                  Container(
                    width: double.infinity,
                    color: Colors.blue,
                    height: 40,
                    padding: const EdgeInsets.only(left:12.0, top: 10, bottom:10),
                    alignment: Alignment.centerLeft,
                    child: const Text(
                      "Tejaswini V",
                      style: TextStyle(
                        color: Colors.white,
                        fontSize: 18,
                        fontWeight: FontWeight.normal,
                      ),
                    ),
                  // DEBUG badge on top right
                  Positioned(
                    top: 0,
                    right: 0,
                    child: Transform.rotate(
                      angle: 0.785, // 45 degrees in radians
                      child: Container(
                        color: Colors.red,
                        padding: const EdgeInsets.symmetric(vertical: 2, horizontal: 8),
                        child: const Text(
```



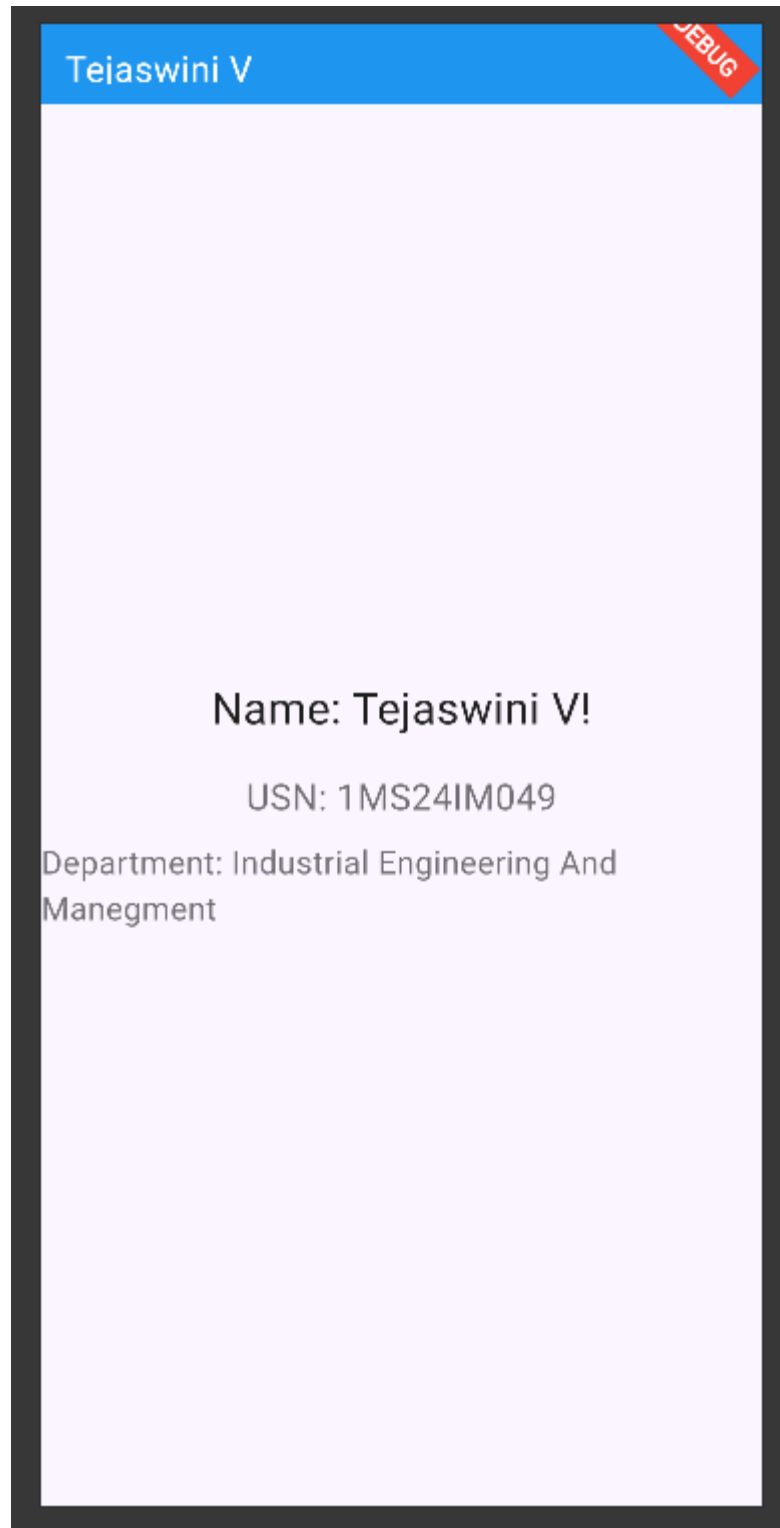
```

        'DEBUG',
        style: TextStyle(
          color: Colors.white,
          fontSize: 12,
          fontWeight: FontWeight.bold,
        ),
      ),
    ),
  ),
),
],
),
),

// Spacer to push content to center
const Expanded(
  child: Center(
    child: Column(
      mainAxisAlignment: MainAxisAlignment.min,
      children: [
        Text(
          'Name: Tejaswini V!',
          style: TextStyle(
            fontSize: 22,
            color: Colors.black87,
          ),
        ),
        SizedBox(height: 16),
        Text(
          'USN: 1MS24IM049',
          style: TextStyle(
            fontSize: 18,
            color: Colors.black54,
          ),
        ),
        SizedBox(height: 8),
        Text(
          'Department: Industrial Engineering And Manegment',
          style: TextStyle(
            fontSize: 16,
            color: Colors.black54,
          ),
        ),
      ],
    ),
  ),
),
],
),
),
),
],
),
),

```

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



Question 4

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

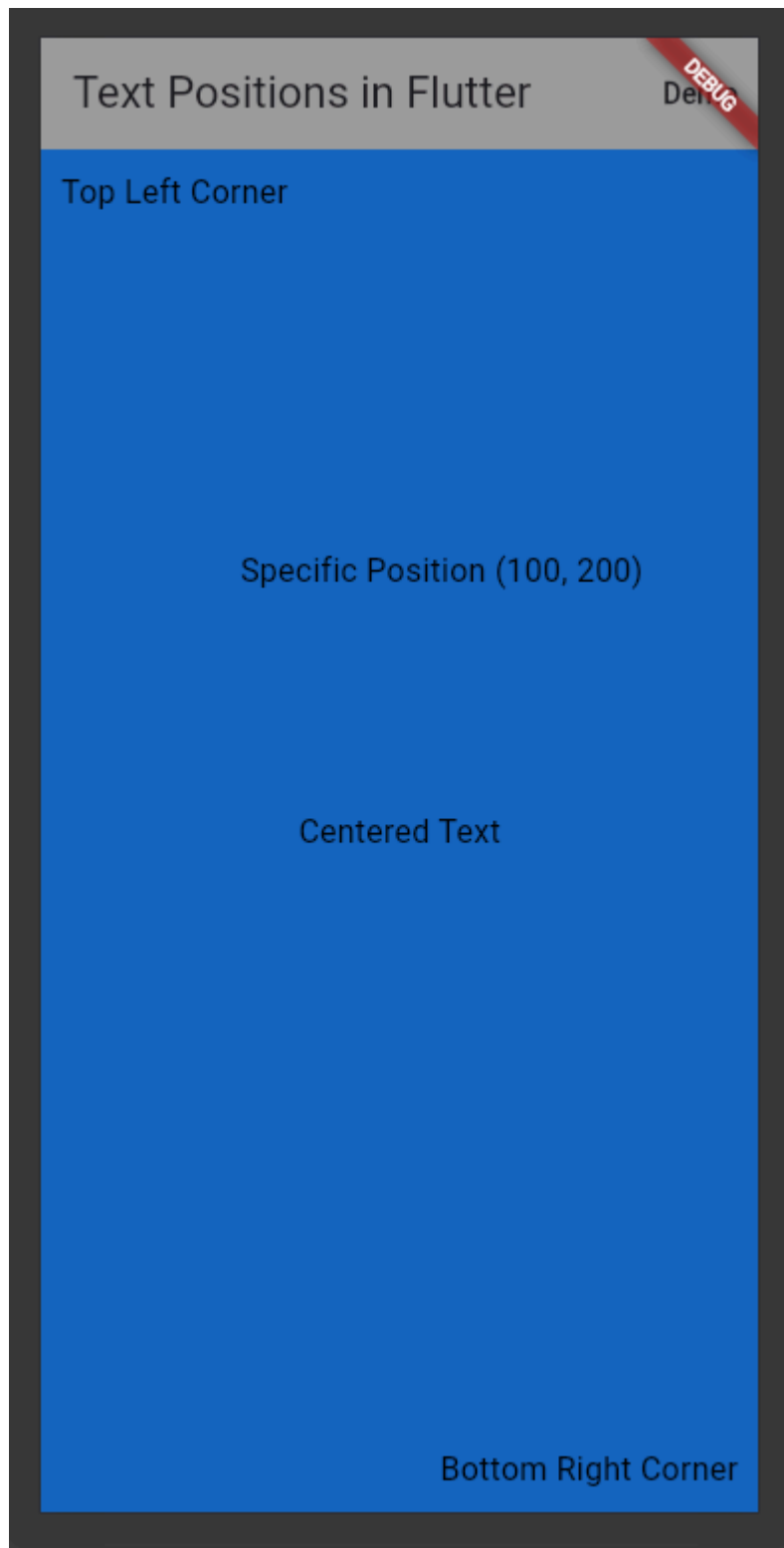
void main() {
  runApp(PositionExampleApp());
}

class PositionExampleApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        appBar: AppBar(
          title: const Text("Text Positions in Flutter"),
          backgroundColor: Colors.grey,
          actions: [
            Padding(
              padding: EdgeInsets.only(right: 10),
              child: Center(
                child: Text(
                  'Demo',
                  style: TextStyle(
                    fontWeight: FontWeight.bold,
                  ),
                ),
              ),
            ),
          ],
        ),
        body: Container(
          color: Colors.blue[800],
          child: Stack(
            children: <Widget>[
              // Top Left Corner
              Positioned(
                top: 10,
                left: 10,
                child: Text(
                  'Top Left Corner',
                  style: TextStyle(color: Colors.black, fontSize: 16),
                ),
              ),
            ],
          ),
        ),
      ),
    );
  }
}
```

```

// Specific position (100, 200)
Positioned(
  top: 200,
  left: 100,
  child: Text(
    'Specific Position (100, 200)',
    style: TextStyle(color: Colors.black, fontSize: 16),
  ),
),
// Centered Text
Center(
  child: Text(
    'Centered Text',
    style: TextStyle(color: Colors.black, fontSize: 16),
  ),
),
// Bottom Right Corner
Align(
  alignment: Alignment.bottomRight,
  child: Padding(
    padding: EdgeInsets.all(10),
    child: Text(
      'Bottom Right Corner',
      style: TextStyle(color: Colors.black, fontSize: 16),
    ),
  ),
),
],
),
),
),
);
}
}

```



Question 5

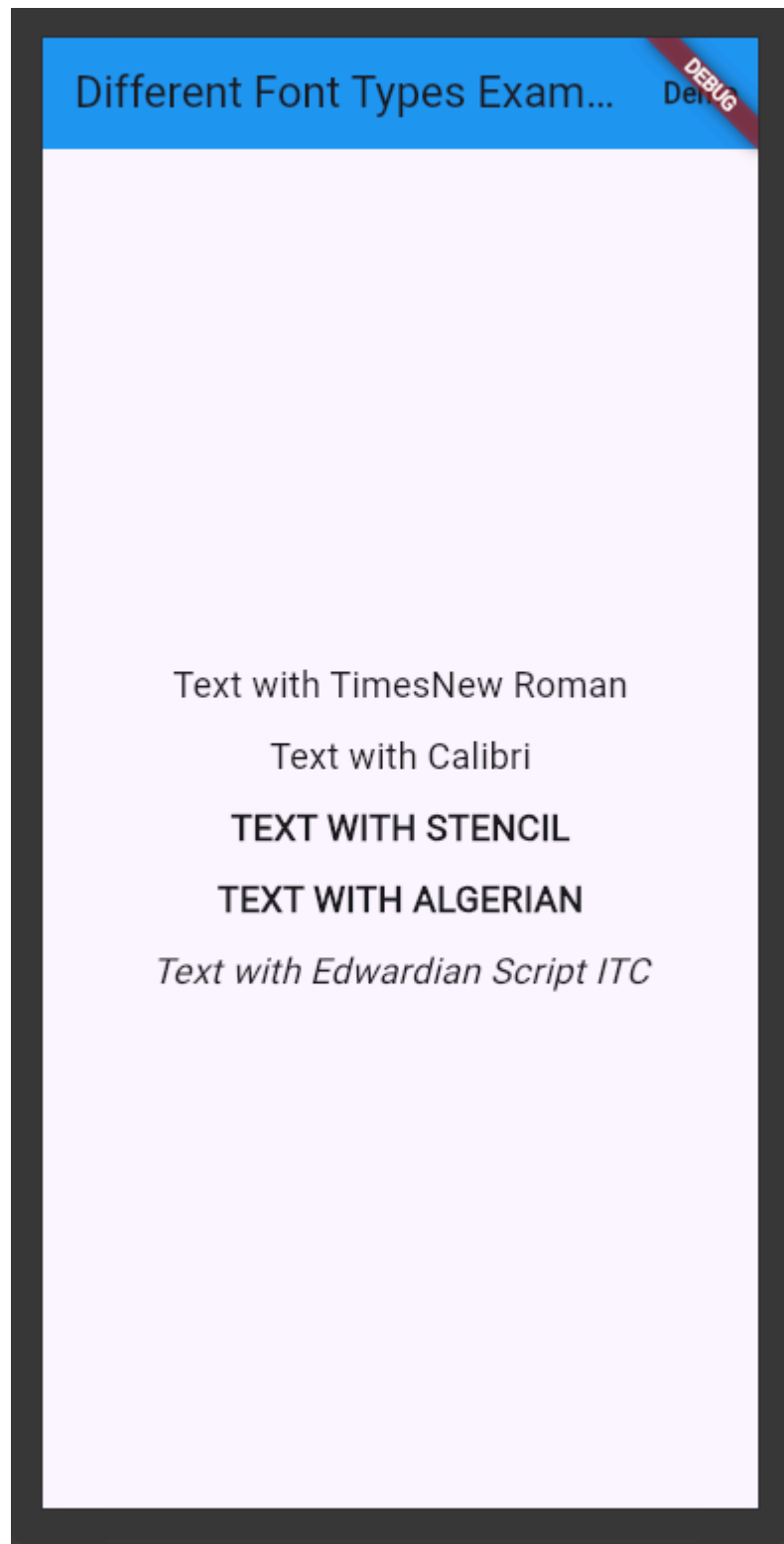
```
import 'package:flutter/material.dart';
```

```
void main() {
```

```
runApp(FontExampleApp());  
}
```

```
class FontExampleApp extends StatelessWidget {  
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      home: Scaffold(  
        appBar: AppBar(  
          title: const Text("Different Font Types Example"),  
          backgroundColor: Colors.blue,  
          actions: [  
            Padding(  
              padding: EdgeInsets.only(right: 10),  
              child: Center(  
                child: Text(  
                  'Demo',  
                  style: TextStyle(fontWeight: FontWeight.bold),  
                ),  
              ),  
            ],  
          ),  
        body: Center(  
          child: Column(  
            mainAxisAlignment: MainAxisAlignment.center,  
            children: const [  
              Text(  
                'Text with TimesNew Roman',  
                style: TextStyle(  
                  fontFamily: 'TimesNewRoman',  
                  fontSize: 18,  
                ),  
              ),  
              SizedBox(height: 10),  
              Text(  
                'Text with Calibri',  
                style: TextStyle(  
                  fontFamily: 'Calibri',  
                  fontSize: 18,  
                ),  
              ),  
              SizedBox(height: 10),  
              Text(  
                'TEXT WITH STENCIL',  
                style: TextStyle(  
                  fontFamily: 'Stencil',  
                  fontSize: 18,  
                ),  
              ),  
            ],  
          ),  
        ),  
      ),  
    );  
  }  
}
```

```
        fontWeight: FontWeight.bold,
      ),
    ),
    SizedBox(height: 10),
    Text(
      'TEXT WITH ALGERIAN',
      style: TextStyle(
        fontFamily: 'Algerian',
        fontSize: 18,
        fontWeight: FontWeight.bold,
      ),
    ),
    ),
    SizedBox(height: 10),
    Text(
      'Text with Edwardian Script ITC',
      style: TextStyle(
        fontFamily: 'EdwardianScript',
        fontSize: 18,
        fontStyle: FontStyle.italic,
      ),
    ),
    ),
  ],
),
),
),
),
);
}
```



Day 2

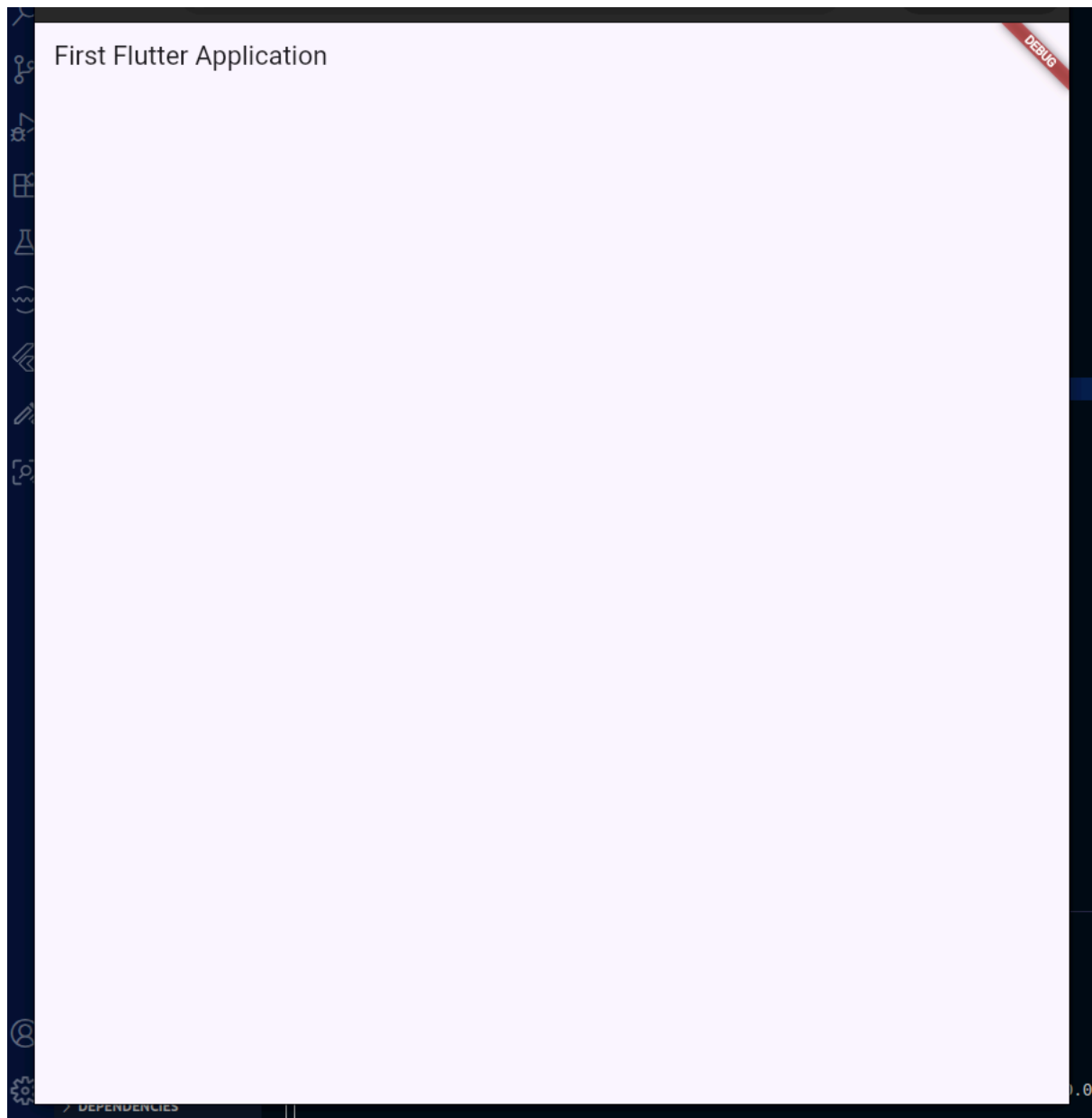
Q1

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



Q2

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

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

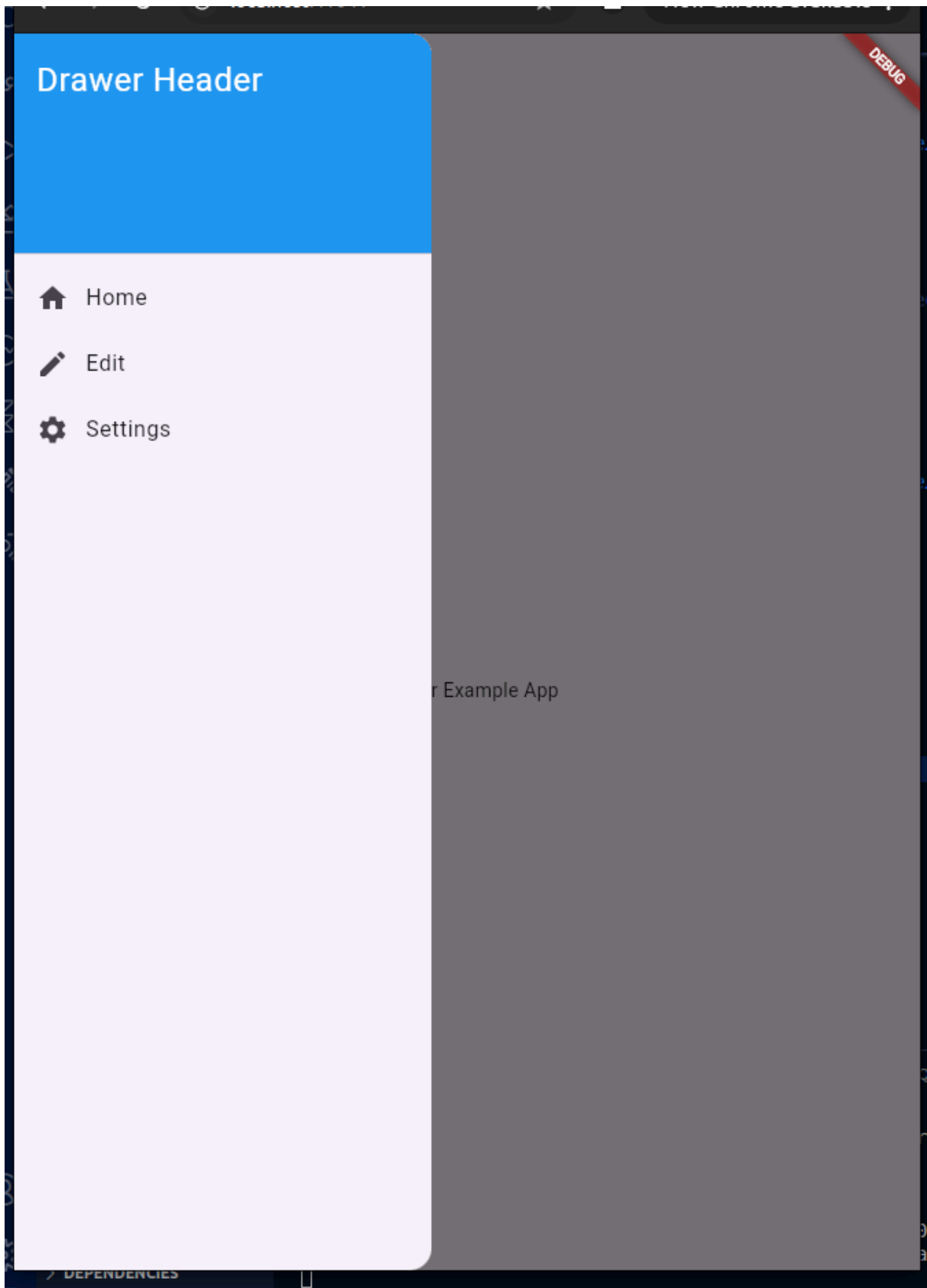
```
class MyApp extends StatelessWidget {  
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      home: Scaffold(  
        appBar: AppBar(  
          title: Text('Drawer Example'),
```

```

),
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.edit),
    title: Text('Edit'),
    onTap: () {
      // Action for Edit can be added here
      Navigator.pop(context);
    },
  ),
  ListTile(
    leading: Icon(Icons.settings),
    title: Text('Settings'),
    onTap: () => Navigator.pop(context),
  ),
],
),
),
body: Center(
  child: Text('Drawer Example App'),

```

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

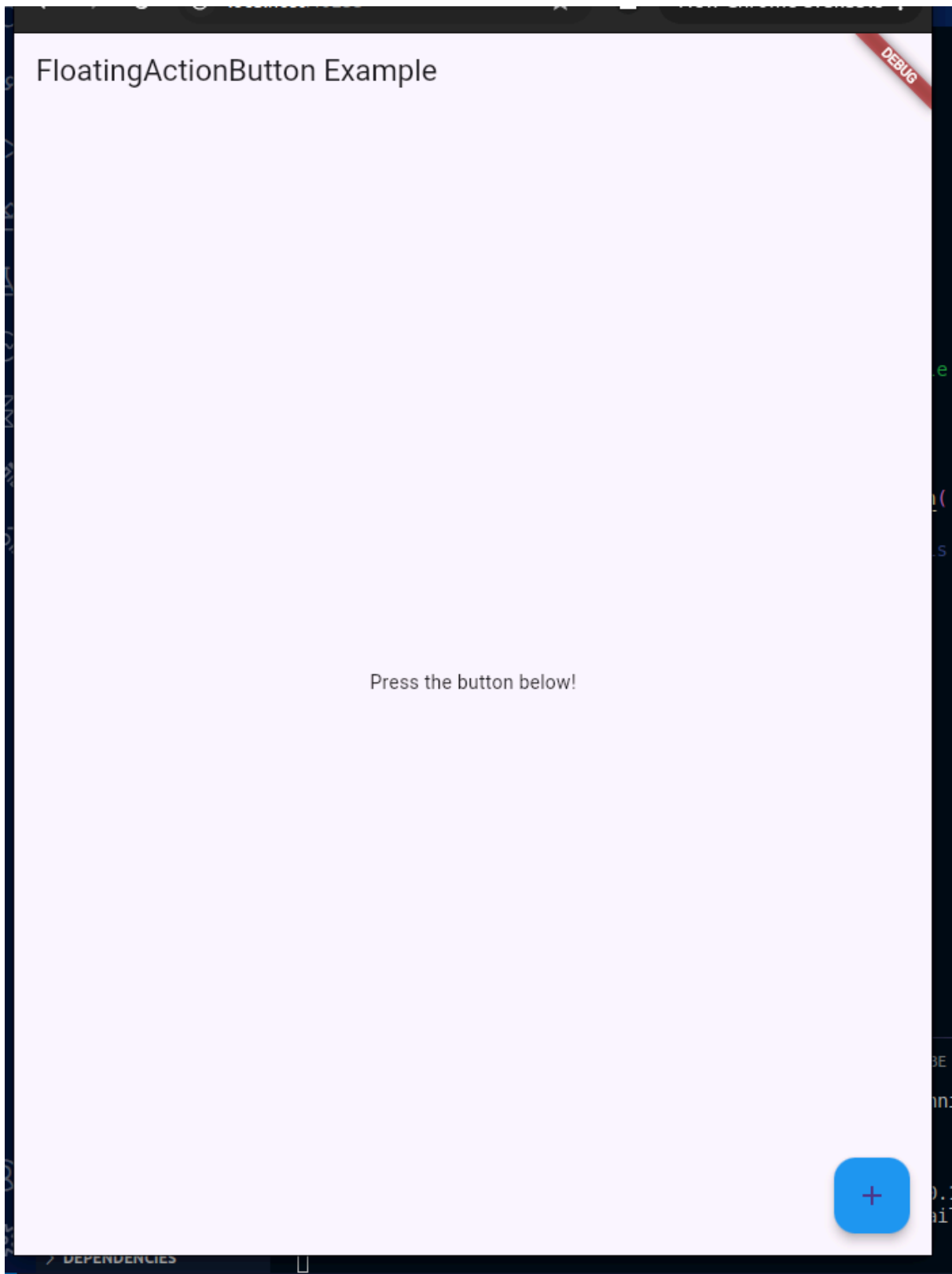


Q3

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

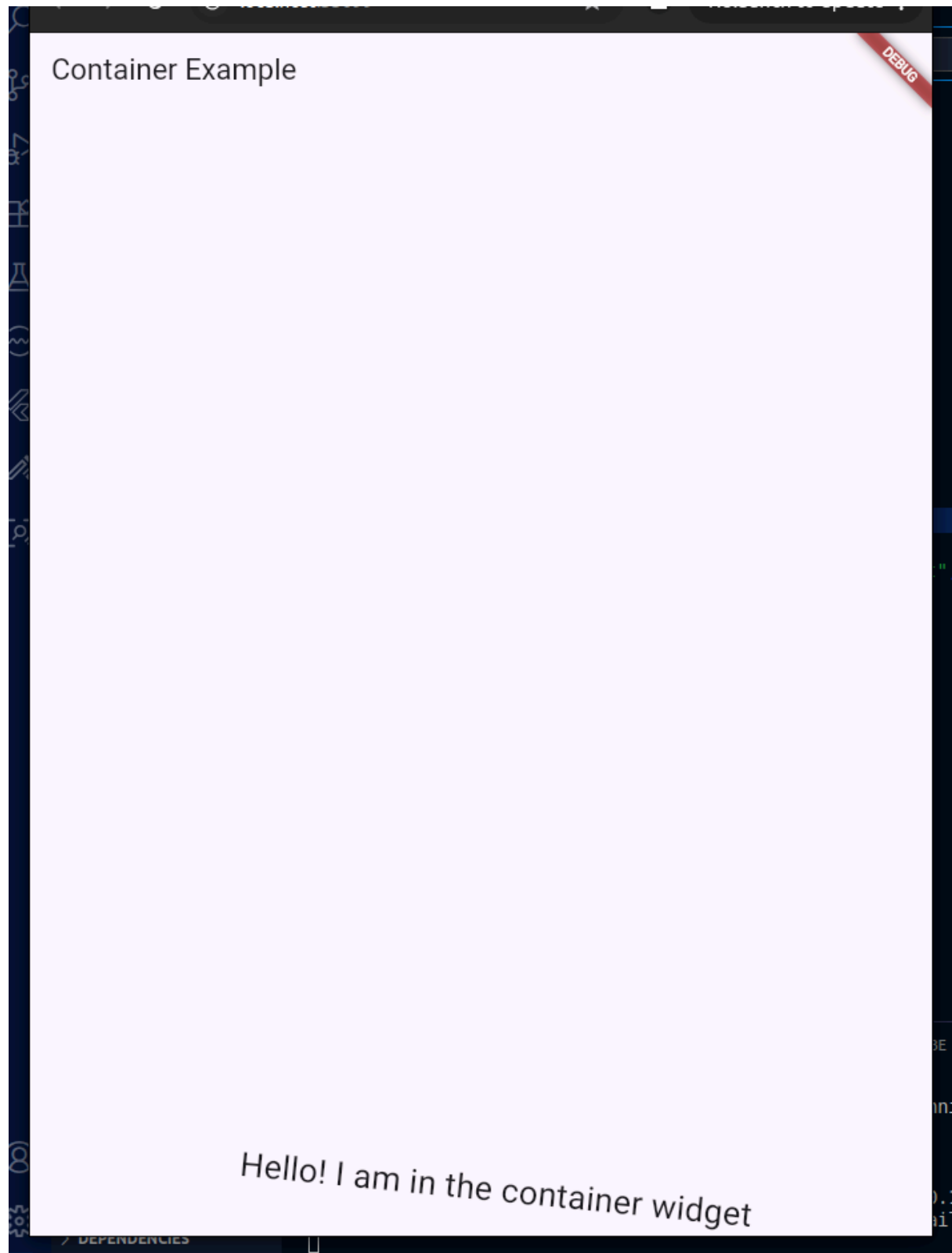


Q4

```
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('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),  
            ),  
          ),  
        ),  
      ),  
    );  
  }  
}
```

Q5

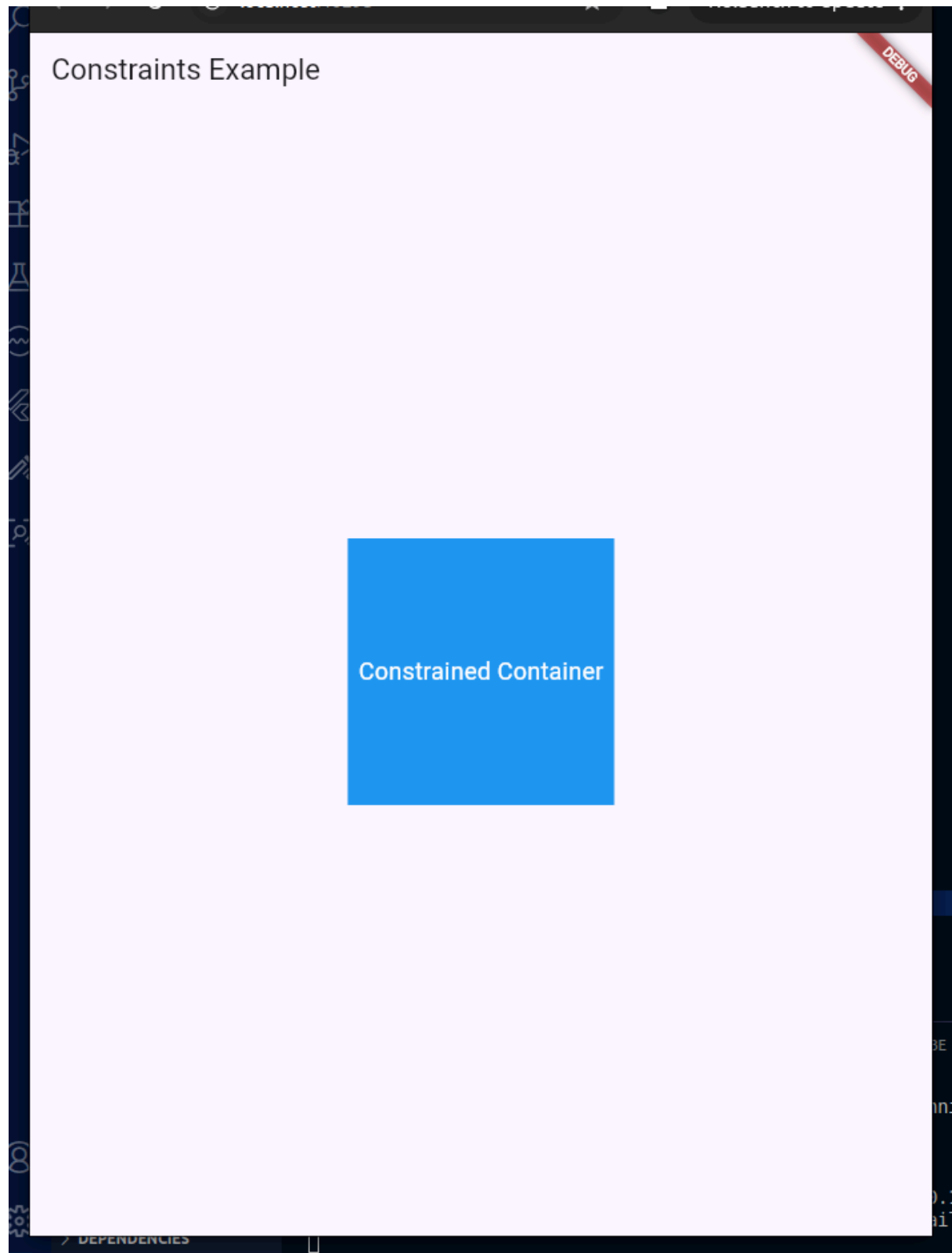
```
import 'package:flutter/material.dart';
```

```
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(
                  color: Colors.white,
                  fontSize: 18,
                ),
              ),
            ),
          ),
        ),
      ),
    );
  }
}

```



Assignment 2

Q1

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

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

```
class MyApp extends StatelessWidget {  
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      title: 'Row Widget Example',  
      home: Scaffold(  
        appBar: AppBar(  
          title: Text('Row Widget Example'),  
        ),  
        body: Center(  
          child: Row(  
            mainAxisAlignment: MainAxisAlignment.center,  
            children: <Widget>[  
              Container(  
                width: 50,  
                height: 50,  
                color: Colors.red,  
              ),  
              SizedBox(width: 20), // spacing between the squares  
              Container(  
                width: 50,  
                height: 50,  
                color: Colors.green,  
              ),  
              SizedBox(width: 20),  
              Container(  
                width: 50,  
                height: 50,  
                color: Colors.blue,  
              ),  
            ],  
          ),  
        ),  
      ),  
    );  
  }  
}
```

Row Widget Example

DEBUG



Q2

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

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

```
class MyApp extends StatelessWidget {  
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      title: 'Ramaiah Chairman Profile',  
      home: Scaffold(  
        appBar: AppBar(  
          title: Text('Ramaiah Chairman Profile'),  
          backgroundColor: Colors.blue[900],  
        ),  
        backgroundColor: Colors.grey.shade100,  
        body: Center(  
          child: Card(  
            margin: EdgeInsets.all(24),  
            elevation: 4,  
            child: Padding(  
              padding: const EdgeInsets.symmetric(vertical: 36, horizontal: 20),  
              child: Column(  
                mainAxisAlignment: MainAxisAlignment.min,  
                children: [  
                  CircleAvatar(  
                    radius: 40,  
                    backgroundImage:  
AssetImage('/home/cselab3/Downloads/ramaiah1.jpg'), // Make sure path  
matches your asset  
                  ),  
                  SizedBox(height: 20),  
                  Text(  
                    'Dr. M. S. Ramaiah',  
                    style: TextStyle(fontSize: 22, fontWeight: FontWeight.bold),  
                  ),  
                  SizedBox(height: 10),  
                  Text(  
                    'Founder Chairman',  
                    style: TextStyle(  
                      color: Colors.orangeAccent,  
                      fontSize: 16,  
                    ),  
                  ),  
                ],  
              ),  
            ),  
          ),  
        ),  
      ),  
    );  
  }  
}
```

```
    ),  
    SizedBox(height: 20),  
    Text(  
      'Mathikere Sampangi Ramaiah was born on 20 April 1922, in  
Madhugiri to Sampangappa and Narasamma.',  
      style: TextStyle(fontSize: 15),  
      textAlign: TextAlign.center,  
    ),  
  ],  
),  
),  
),  
),  
),  
),  
);  
}
```

Ramaiah Chairman Profile

DEBUG



Dr. M. S. Ramaiah

Founder Chairman

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

Q3

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



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

```
class MyApp extends StatefulWidget {  
  @override  
  _MyAppState createState() => _MyAppState();  
}
```

```
class _MyAppState extends State<MyApp> {  
  String _displayText = "";
```

```
  void _handleButtonClick() {  
    setState(() {  
      _displayText = "refusing to restart...\n"  
        "Initializing in 65s;\n"  
        "Button Clicked";  
    });  
  }
```

```
  @override
```

```
  Widget build(BuildContext context) {  
    return MaterialApp(  
      title: 'TextButton Example',  
      home: Scaffold(  
        appBar: AppBar(  
          title: Text('Exercise-03'),  
        ),  
        body: Padding(  
          padding: const EdgeInsets.all(32.0),  
          child: Row(  
            crossAxisAlignment: CrossAxisAlignment.start,  
            children: [  
              // Left column with button  
              Container(  
                width: 200,  
                decoration: BoxDecoration(  
                  border: Border.all(),  
                ),  
                child: Column(  
                  mainAxisAlignment: MainAxisAlignment.start,  
                  children: [  

```

```

        Container(
          width: double.infinity,
          color: Colors.blue[200],
          padding: EdgeInsets.all(8),
          child: Text('TextButton Example'),
        ),
        SizedBox(height: 50),
        TextButton(
          onPressed: _handleButtonClick,
          child: Text('Click Me'),
        ),
      ],
    ),
    SizedBox(width: 50),
    // Right side text display
    if (_displayText.isNotEmpty)
      Container(
        padding: EdgeInsets.all(10),
        color: Colors.black87,
        child: Text(
          _displayText,
          style: TextStyle(
            color: Colors.white,
            fontFamily: 'Courier',
          ),
        ),
      ),
  ],
),
),
);
}
}

```

Exercise-03

DEBUG

TextButton Example

Click Me

refusing to restart...
Initializing in 65s;
Button Clicked

Q4

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

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

```
class MyApp extends StatelessWidget {  
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      title: 'ElevatedButton Example',  
      theme: ThemeData(  
        primarySwatch: Colors.blue,  
      ),  
      home: ElevatedButtonExample(),  
      debugShowCheckedModeBanner: false,  
    );  
  }  
}
```

```
class ElevatedButtonExample extends StatefulWidget {  
  @override  
  _ElevatedButtonExampleState createState() =>  
    _ElevatedButtonExampleState();  
}
```

```
class _ElevatedButtonExampleState extends State<ElevatedButtonExample>  
{  
  bool showTerminal = false;
```

```
  @override  
  Widget build(BuildContext context) {  
    return Scaffold(  
      backgroundColor: Colors.grey[100],  
      body: Row(  
        children: [  
          // Left panel - Main content  
          Container(  
            width: 400,  
            height: double.infinity,  
            color: Colors.white,
```

```

child: Column(
  children: [
    // Header with blue background
    Container(
      width: double.infinity,
      padding: EdgeInsets.symmetric(horizontal: 16, vertical: 12),
      decoration: BoxDecoration(
        gradient: LinearGradient(
          colors: [Colors.blue[600]!, Colors.teal[400]!],
          begin: Alignment.centerLeft,
          end: Alignment.centerRight,
        ),
      ),
    ),
    child: Row(
      children: [
        // Bullet point
        Container(
          width: 6,
          height: 6,
          decoration: BoxDecoration(
            color: Colors.white,
            shape: BoxShape.circle,
          ),
        ),
        margin: EdgeInsets.only(right: 12),
      ),
      Text(
        'ElevatedButton Example',
        style: TextStyle(
          color: Colors.white,
          fontSize: 16,
          fontWeight: FontWeight.w500,
        ),
      ),
      Spacer(),
      // Small icon in corner
      Container(
        width: 20,
        height: 20,
        decoration: BoxDecoration(
          color: Colors.white.withOpacity(0.3),

```

```

        borderRadius: BorderRadius.circular(3),
      ),
      child: Icon(
        Icons.code,
        size: 12,
        color: Colors.white,
      ),
    ),
  ],
),
),
),

```

// Content area

```

Expanded(
  child: Padding(
    padding: EdgeInsets.all(24),
    child: Column(
      crossAxisAlignment: CrossAxisAlignment.start,
      children: [
        SizedBox(height: 150),

```

// Click Me button

```

ElevatedButton(
  onPressed: () {
    setState(() {
      showTerminal = true;
    });
  },
  style: ElevatedButton.styleFrom(
    backgroundColor: Colors.blue[600],
    foregroundColor: Colors.white,
    padding: EdgeInsets.symmetric(horizontal: 24, vertical: 12),
    shape: RoundedRectangleBorder(
      borderRadius: BorderRadius.circular(6),
    ),
    elevation: 2,
  ),
  child: Text(
    'Click Me',
    style: TextStyle(

```

```

        fontSize: 14,
        fontWeight: FontWeight.w500,
      ),
    ),
  ),

  Spacer(),
],
),
),
),
],
),
),
),

```

// Right panel - Terminal output

```

Expanded(
  child: Container(
    color: Colors.grey[100],
    child: showTerminal
      ? Container(
        margin: EdgeInsets.all(20),
        padding: EdgeInsets.all(16),
        decoration: BoxDecoration(
          color: Colors.black87,
          borderRadius: BorderRadius.circular(4),
          boxShadow: [
            BoxShadow(
              color: Colors.black26,
              blurRadius: 8,
              offset: Offset(0, 4),
            ),
          ],
        ),
      )
    ),
  child: Column(
    crossAxisAlignment: CrossAxisAlignment.start,
    mainAxisAlignment: MainAxisAlignment.min,
    children: [
      Text(
        'A Dart VM Service on Chrome is available at: http://127.0.0.',

```

```

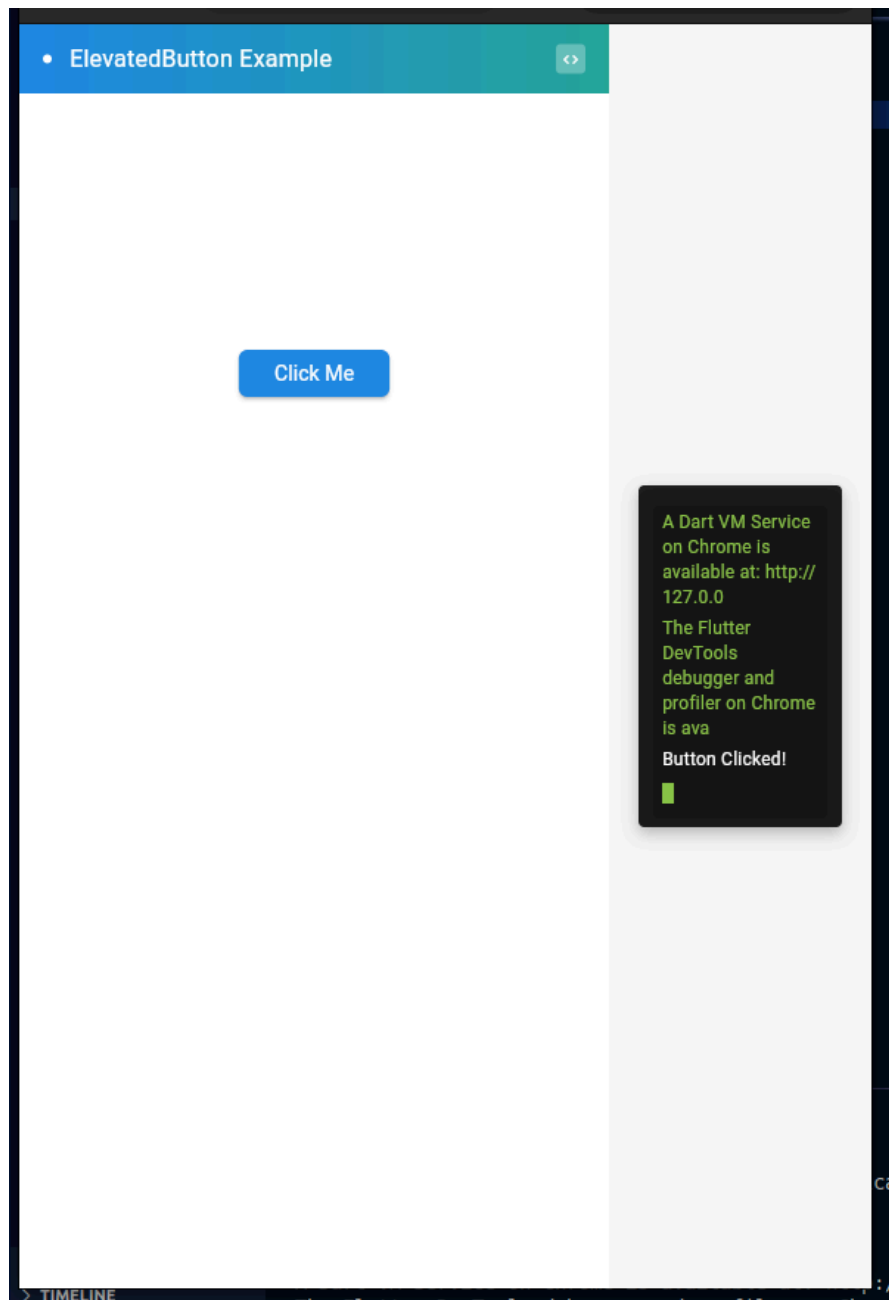
        style: TextStyle(
          color: Colors.lightGreen,
          fontSize: 12,
          fontFamily: 'monospace',
        ),
      ),
      SizedBox(height: 4),
      Text(
        'The Flutter DevTools debugger and profiler on Chrome is
ava',

        style: TextStyle(
          color: Colors.lightGreen,
          fontSize: 12,
          fontFamily: 'monospace',
        ),
      ),
      SizedBox(height: 4),
      Text(
        'Button Clicked!',
        style: TextStyle(
          color: Colors.white,
          fontSize: 12,
          fontFamily: 'monospace',
        ),
      ),
    ),
    SizedBox(height: 8),
    // Cursor
    Container(
      width: 8,
      height: 14,
      color: Colors.lightGreen,
    ),
  ],
),
)
: SizedBox.shrink(),
),
),
1,
),

```



```
);
}
}
```



Q5

```
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"),
          content: Text("This is a basic alert dialog."),
          actions: <Widget>[
            TextButton(
              child: Text("Close"),
              onPressed: () {
                Navigator.of(context).pop();
              },
            ),
          ],
        );
      },
    );
  }
}

```

```

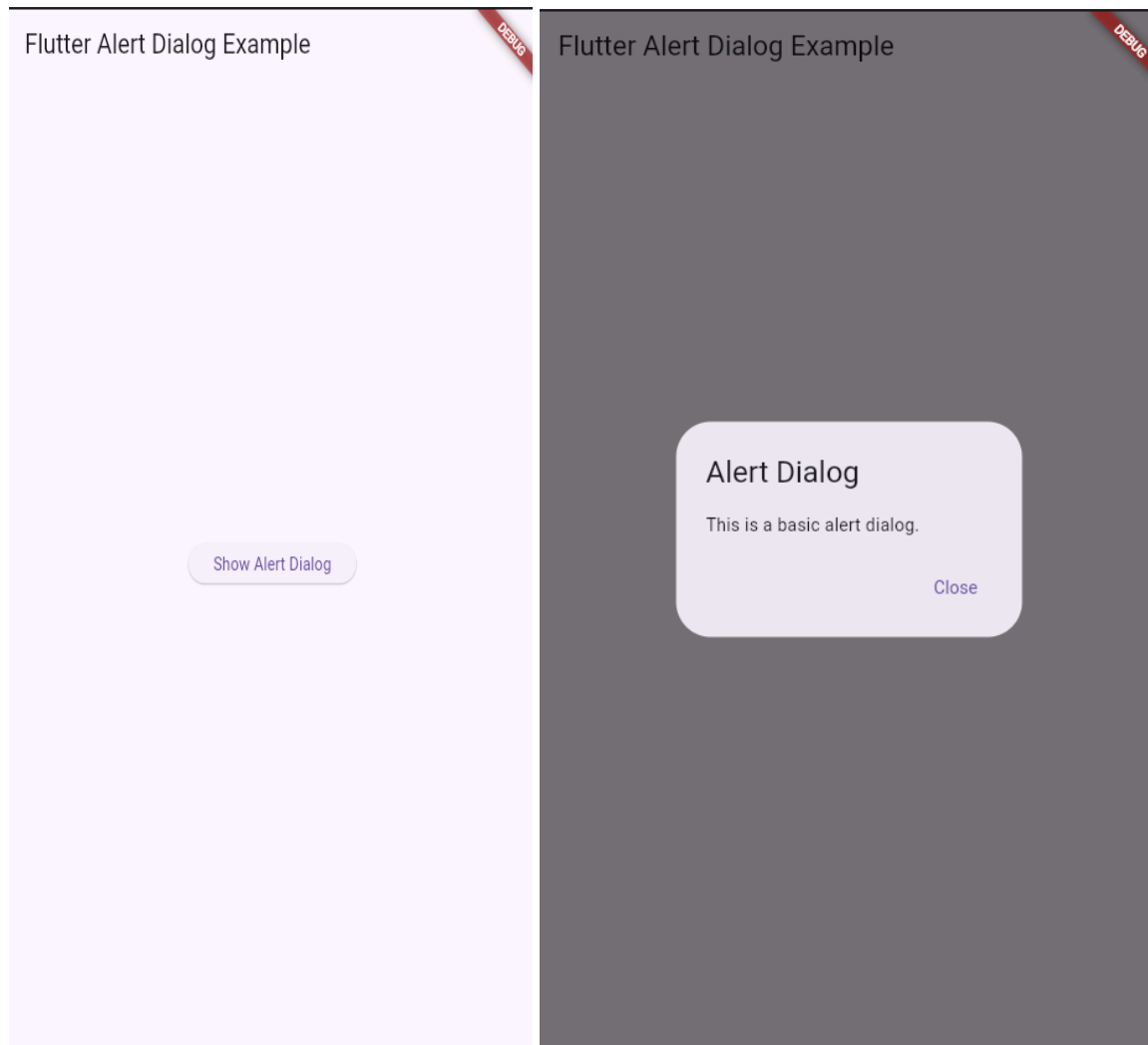
@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: Text("Flutter Alert Dialog Example"),
    ),
    body: Center(
      child: ElevatedButton(
        onPressed: () {
          _showAlertDialog(context);
        },
      ),
    ),
  );
}

```

```

        child: Text("Show Alert Dialog"),
      ),
    ),
  );
}
}

```



Q6

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

}

Flutter Icons Example

DEBUG



Star Icon



Favorite Icon



Florist Icon

Q7

```
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 List Example

DEBUG

Item 1

Item 2

Item 3

Item 4

Item 5

Q8

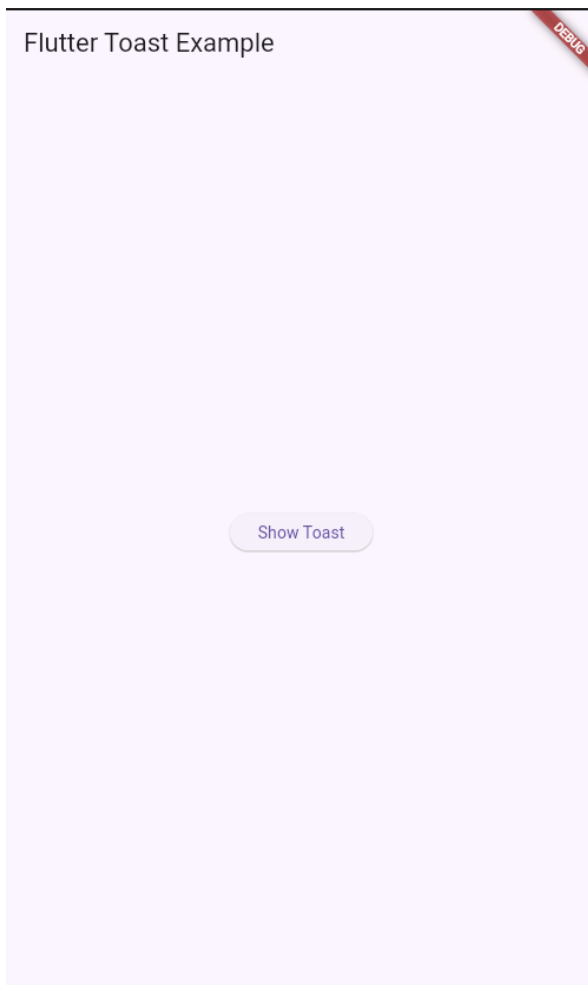
```
import 'package:flutter/material.dart';
```

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

Q9

```
port '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  
          ),  
        ),  
      ),  
    );  
  }  
}
```

Welcome to Flutter Themes

Q10

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

Flutter Pie Chart Demo

DEBUG

