Aim: Program to demonstrate the widgets and user interfaces.

CODE:

Main.dart

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

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

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

  // This widget is the root of your application.
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Flutter Demo',
      theme: ThemeData(

        colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepPurple),
        useMaterial3: true,
      ),
      home: const MyHomePage(title: 'Flutter Demo Home Page'),
    );
  }
}

class MyHomePage extends StatefulWidget {
  const MyHomePage({super.key, required this.title});

  final String title;

  @override
  State<MyHomePage> createState() => _MyHomePageState();
}

class _MyHomePageState extends State<MyHomePage> {
  int _counter = 0;

  void _incrementCounter() {
    setState(() {

      _counter++;
```

```
      });
    }

    @override
    Widget build(BuildContext context) {

      return Scaffold(
        appBar: AppBar(

          backgroundColor: Theme.of(context).colorScheme.inversePrimary,

          title: Text(widget.title),
        ),
        body: Center(

          child: Column(

            mainAxisAlignment: MainAxisAlignment.center,
            children: <Widget>[
              const Text(
                'You have pushed the button this many times:',
              ),
              Text(
                '$_counter',
                style: Theme.of(context).textTheme.headlineMedium,
              ),
            ],
          ),
        ),
        floatingActionButton: FloatingActionButton(
          onPressed: _incrementCounter,
          tooltip: 'Increment',
          child: const Icon(Icons.add),
        ), // This trailing comma makes auto-formatting nicer for build methods.
      );
    }
}
```

Output:

Flutter Demo Home Page

You have pushed the button this many times:

2

This is a Card widget.

Cards are useful for grouping related content.

This is inside a container with padding and color.

Enter something

TT |

You entered:

Increment   Decrement

+

Flutter Demo Home Page

You have pushed the button this many times:

3

This is a Card widget.

Cards are useful for grouping related content.

This is inside a container with padding and color.

Enter something

TT Backpackers|

You entered: Backpackers

Increment   Decrement

+