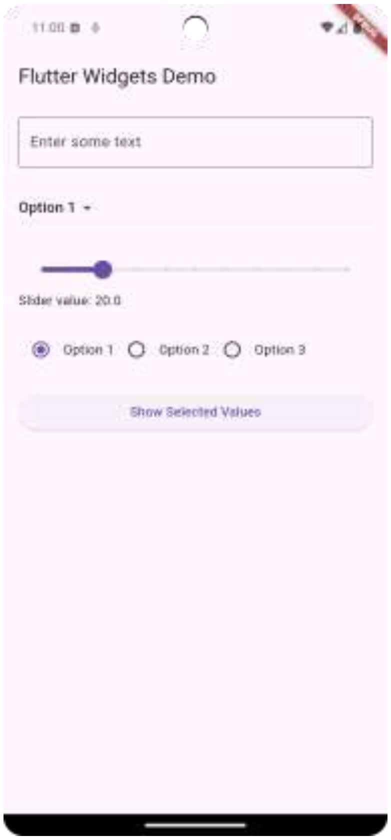
Aim: Program to demonstrate the use of basic controls.

CODE:

Main.dart

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

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

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

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Flutter Widgets Demo',
      theme: ThemeData(
        primarySwatch: Colors.blue,
      ),
      home: const MyHomePage(),
    );
  }
}

class MyHomePage extends StatefulWidget {
  const MyHomePage({super.key});

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

class _MyHomePageState extends State<MyHomePage> {
  // Controller for TextField input
  TextEditingController _textFieldController = TextEditingController();

  // Variables for Dropdown, Slider, and Radio
  String _selectedItem = 'Option 1';
  double _sliderValue = 20.0;
  int? _selectedRadioValue = 0; // Default to 0 (Option 1)

  // Method to handle button press
  void _handleButtonPress() {
    final textInput = _textFieldController.text;
    final selectedDropdown = _selectedItem;
    final selectedSliderValue = _sliderValue;
    final selectedRadioValue = _selectedRadioValue;

    // Display selected values
    showDialog(
      context: context,
      builder: (context) => AlertDialog(
        title: const Text('Selected Values'),
        content: Text(
            'Text: $textInput\nDropdown: $selectedDropdown\nSlider:
$selectedSliderValue\nRadio: Option ${selectedRadioValue! + 1}'),
        actions: [
          TextButton(
            onPressed: () {
              Navigator.pop(context); // Close the dialog
            },
            child: const Text('OK'),
          ),
        ],
      ),
    );
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: const Text('Flutter Widgets Demo'),
      ),
      body: Padding(
        padding: const EdgeInsets.all(16.0),
        child: ListView(
          children: <Widget>[
            // TextField Widget
            TextField(
              controller: _textFieldController,
              decoration: const InputDecoration(
                labelText: 'Enter some text',
                border: OutlineInputBorder(),
              ),
            ),
            const SizedBox(height: 20),

            // Dropdown Button
            DropdownButton<String>(
  value: _selectedItem,
  items: <String>['Option 1', 'Option 2', 'Option 3']
      .map<DropdownMenuItem<String>>((String value) {
    return DropdownMenuItem<String>(
      value: value,
      child: Text(value),
    );
  }).toList(),
  onChanged: (String? newValue) {
    setState(() {
      _selectedItem = newValue!;
    });
  },
),
const SizedBox(height: 20),

// Slider Widget
Slider(
  value: _sliderValue,
  min: 0,
  max: 100,
  divisions: 10,
  label: _sliderValue.round().toString(),
  onChanged: (double value) {
    setState(() {
      _sliderValue = value;
    });
  },
),
Text('Slider value: ${_sliderValue.toStringAsFixed(1)}'),
const SizedBox(height: 20),

// Radio Button
Row(
  children: <Widget>[
    Radio<int>(
      value: 0, // Option 1
      groupValue: _selectedRadioValue,
      onChanged: (int? value) {
        setState(() {
          _selectedRadioValue = value!;
        });
      },
    ),
    const Text('Option 1'),
    Radio<int>(
                  value: 1, // Option 2
                  groupValue: _selectedRadioValue,
                  onChanged: (int? value) {
                    setState(() {
                      _selectedRadioValue = value!;
                    });
                  },
                ),
                const Text('Option 2'),
                Radio<int>(
                  value: 2, // Option 3
                  groupValue: _selectedRadioValue,
                  onChanged: (int? value) {
                    setState(() {
                      _selectedRadioValue = value!;
                    });
                  },
                ),
                const Text('Option 3'),
              ],
            ),
            const SizedBox(height: 20),

            // Button to display selected values
            ElevatedButton(
              onPressed: _handleButtonPress,
              child: const Text('Show Selected Values'),
            ),
          ],
        ),
      ),
    );
  }
}
```

Output:



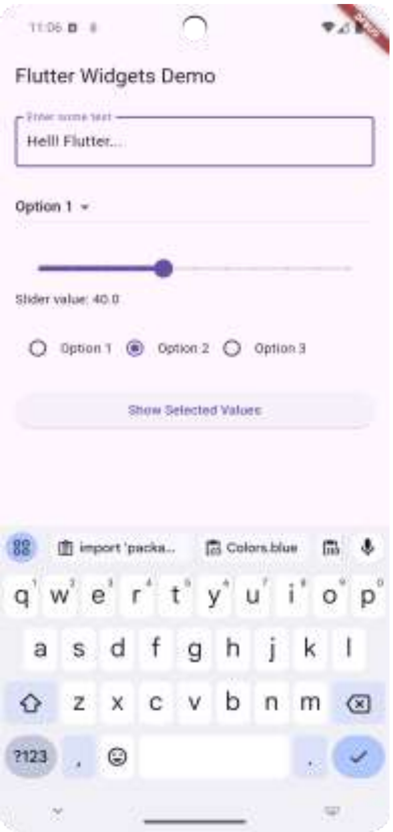
Flutter Widgets Demo

Enter some text

Option 1

Slider value: 20.0

● Option 1 ○ Option 2 ○ Option 3



Flutter Widgets Demo

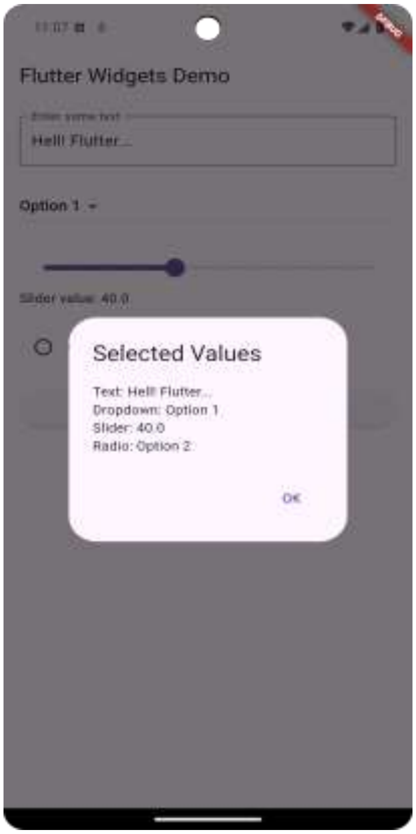
Enter some text

Helll Flutter...

Option 1

Slider value: 40.0

○ Option 1 ● Option 2 ○ Option 3



Flutter Widgets Demo

Enter some text

Helll Flutter...

Option 1

Slider value: 40.0

Selected Values

Text: Helll Flutter...
Dropdown: Option 1
Slider: 40.0
Radio: Option 2