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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: 'Activity 9',
      theme: ThemeData(
        colorScheme: ColorScheme.fromSeed(seedColor: Colors.orange),
      ),
      home: const CalculatorPage(),
    );
  }
}

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

  @override
  State<CalculatorPage> createState() => _CalculatorPageState();
}

class _CalculatorPageState extends State<CalculatorPage> {
  final TextEditingController _aController = TextEditingController();
  final TextEditingController _bController = TextEditingController();

  String _result = '';

  @override
  void dispose() {
    _aController.dispose();
    _bController.dispose();
    super.dispose();
  }

  double? _parseInput(String s) {
    if (s.trim().isEmpty) return null;
    return double.tryParse(s);
  }

  void _calculate(String op) {
    final a = _parseInput(_aController.text);
    final b = _parseInput(_bController.text);
  }
}

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    if (a == null || b == null) {
      setState(() {
        _result = 'Please enter valid numbers';
      });
      return;
    }

    double res;
    switch (op) {
      case '+':
        res = a + b;
        break;
      case '-':
        res = a - b;
        break;
      case 'x':
      case '*':
        res = a * b;
        break;
      case '÷':
      case '/':
        if (b == 0) {
          setState(() {
            _result = 'Division by zero';
          });
          return;
        }
        res = a / b;
        break;
      default:
        res = 0;
    }

    setState(() {
      _result = res.toString();
    });
  }

Widget _buildNumberField({
  required String label,
  required TextEditingController controller,
}) {
  return Expanded(
    child: TextField(
      controller: controller,
      keyboardType: const TextInputType.numberWithOptions(decimal: true),
      decoration: InputDecoration(
        labelText: label,

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        border: OutlineInputBorder(borderRadius: BorderRadius.circular(12.0)),
    ),
),
);
}

@override
Widget build(BuildContext context) {
    final ButtonStyle calcButtonStyle = ElevatedButton.styleFrom(
        backgroundColor: Colors.amber,
        foregroundColor: Colors.black,
        padding: const EdgeInsets.symmetric(horizontal: 20, vertical: 14),
        shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(12)),
        textStyle: const TextStyle(fontSize: 16, fontWeight: FontWeight.bold),
    );

    return Scaffold(
        appBar: AppBar(
            title: const Text('Activity 9'),
        ),
        body: Padding(
            padding: const EdgeInsets.all(16.0),
            child: Column(
                children: [
                    Row(
                        children: [
                            _buildNumberField(label: 'A', controller: _aController),
                            const SizedBox(width: 12),
                            _buildNumberField(label: 'B', controller: _bController),
                        ],
                    ),
                    const SizedBox(height: 16),
                    Row(
                        mainAxisAlignment: MainAxisAlignment.spaceEvenly,
                        children: [
                            ElevatedButton(
                                onPressed: () => _calculate('+'),
                                style: calcButtonStyle,
                                child: const Text('Add (+)'),
                            ),
                            ElevatedButton(
                                onPressed: () => _calculate('-'),
                                style: calcButtonStyle,
                                child: const Text('Subtract (-)'),
                            ),
                        ],
                    ),
                    const SizedBox(height: 12),
                    Row(

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        mainAxisAlignment: MainAxisAlignment.spaceEvenly,
        children: [
          ElevatedButton(
            onPressed: () => _calculate('×'),
            style: calcButtonStyle,
            child: const Text('Multiply (×)'),
          ),
          ElevatedButton(
            onPressed: () => _calculate('÷'),
            style: calcButtonStyle,
            child: const Text('Divide (÷)'),
          ),
        ],
      ),
      const SizedBox(height: 24),
      Text(
        'Result: $_result',
        style: const TextStyle(
          fontSize: 28,
          fontWeight: FontWeight.bold,
        ),
      ),
    ],
  ),
),
);
}
}

```