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import 'package:flutter/material.dart';

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

class CalculatorApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      theme: ThemeData.dark(),
      home: Calculator(),
      debugShowCheckedModeBanner: false,
    );
  }
}

class Calculator extends StatefulWidget {
  @override
  CalculatorState createState() => CalculatorState();
}

class CalculatorState extends State<Calculator> {
  String output = '0';
  String currentInput = '';
  double num1 = 0;
  String operator = '';

  void handleClick(String value) {
    setState(() {
      if (value == 'C') {
        output = '0';
        currentInput = '';
        num1 = 0;
        operator = '';
      } else if (['+', '-', 'x', '÷'].contains(value)) {
        output=value;
        num1 = double.tryParse(currentInput) ?? 0;
        operator = value;
        currentInput = '';
      } else if (value == '=') {
        double num2 = double.tryParse(currentInput) ?? 0;
        switch (operator) {
          case '+':
            output = (num1 + num2).toString();
            break;
          case '-':
            output = (num1 - num2).toString();
            break;
          case 'x':
            output = (num1 * num2).toString();
            break;
          case '÷':
            output = num2 != 0 ? (num1 / num2).toString() : 'Error';
            break;
        }
        currentInput = output;
        operator = '';
      } else {
        currentInput += value;
        output = currentInput;
      }
    });
  }

  Widget buildButton(String value) {

```

```

return Expanded(
  child: ElevatedButton(
    onPressed: () => handleButtonClick(value),
    style: ElevatedButton.styleFrom(
      padding: EdgeInsets.all(20),
      shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(8)),
    ),
    child: Text(
      value,
      style: TextStyle(fontSize: 24, fontWeight: FontWeight.bold),
    ),
  ),
);
}

```

```

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(title: Text('Calculator')),
    body: Column(
      children: [
        Expanded(
          child: Container(
            alignment: Alignment.bottomRight,
            padding: EdgeInsets.all(16),
            child: Text(
              output,
              style: TextStyle(fontSize: 48, fontWeight: FontWeight.bold),
            ),
          ),
        ),
        Row(
          children: [
            buildButton('7'),
            buildButton('8'),
            buildButton('9'),
            buildButton('÷'),
          ],
        ),
        Row(
          children: [
            buildButton('4'),
            buildButton('5'),
            buildButton('6'),
            buildButton('×'),
          ],
        ),
        Row(
          children: [
            buildButton('1'),
            buildButton('2'),
            buildButton('3'),
            buildButton('-'),
          ],
        ),
        Row(
          children: [
            buildButton('C'),
            buildButton('0'),
            buildButton('='),
            buildButton('+'),
          ],
        ),
      ],
    ),
  );
}

```

