**Factorial Calculator**

import 'package:flutter/material.dart';

void main() {

runApp(FactorialApp());

}

class FactorialApp extends StatelessWidget {

@override

Widget build(BuildContext context) {

return MaterialApp(

home: FactorialScreen(),

);

}

}

class FactorialScreen extends StatefulWidget {

@override

\_FactorialScreenState createState() => \_FactorialScreenState();

}

class \_FactorialScreenState extends State<FactorialScreen> {

TextEditingController \_controller = TextEditingController();

int \_result = 1;

void \_calculateFactorial() {

int n = int.tryParse(\_controller.text) ?? 0;

int factorial = 1;

for (int i = 1; i <= n; i++) {

factorial \*= i;

}

setState(() {

\_result = factorial;

});

}

@override

Widget build(BuildContext context) {

return Scaffold(

appBar: AppBar(

title: Text('Factorial Calculator'),

),

body: Padding(

padding: const EdgeInsets.all(16.0),

child: Column(

mainAxisAlignment: MainAxisAlignment.center,

children: [

TextField(

controller: \_controller,

keyboardType: TextInputType.number,

decoration: InputDecoration(

labelText: 'Enter a number',

),

),

SizedBox(height: 20.0),

ElevatedButton(

onPressed: \_calculateFactorial,

child: Text('Calculate Factorial'),

),

SizedBox(height: 20.0),

Text(

'Factorial: $\_result',

style: TextStyle(fontSize: 20.0),

),

],

),

),

);

}

}

**Output :**

