import 'package:flutter/material.dart';

void main() {

runApp(CalculadoraIMCApp());

}

class CalculadoraIMCApp extends StatelessWidget {

@override

Widget build(BuildContext context) {

return MaterialApp(

title: 'Calculadora de IMC',

theme: ThemeData(primarySwatch: Colors.blue),

home: IMCCalculator(),

);

}

}

class IMCCalculator extends StatefulWidget {

@override

\_IMCCalculatorState createState() => \_IMCCalculatorState();

}

class \_IMCCalculatorState extends State<IMCCalculator> {

final TextEditingController \_nameController = TextEditingController();

final TextEditingController \_weightController = TextEditingController();

final TextEditingController \_heightController = TextEditingController();

String \_result = '';

void \_calculateIMC() {

final String name = \_nameController.text;

final double weight = double.tryParse(\_weightController.text) ?? 0;

final double height = double.tryParse(\_heightController.text) ?? 0;

if (weight > 0 && height > 0) {

double imc = weight / (height \* height);

String classification;

if (imc < 18.5) {

classification = 'Baixo peso';

} else if (imc < 25.0) {

classification = 'Peso adequado';

} else if (imc < 30.0) {

classification = 'Sobrepeso';

} else {

classification = 'Obesidade';

}

setState(() {

\_result = '$name, seu IMC é ${imc.toStringAsFixed(2)}: $classification';

});

} else {

setState(() {

\_result = 'Por favor, insira valores válidos.';

});

}

}

@override

Widget build(BuildContext context) {

return Scaffold(

appBar: AppBar(

title: Text('Calculadora de IMC'),

),

body: Padding(

padding: const EdgeInsets.all(16.0),

child: Column(

children: [

TextField(

controller: \_nameController,

decoration: InputDecoration(labelText: 'Nome'),

),

TextField(

controller: \_weightController,

decoration: InputDecoration(labelText: 'Peso (kg)'),

keyboardType: TextInputType.number,

),

TextField(

controller: \_heightController,

decoration: InputDecoration(labelText: 'Altura (m)'),

keyboardType: TextInputType.number,

),

SizedBox(height: 20),

ElevatedButton(

onPressed: \_calculateIMC,

child: Text('Calcular IMC'),

),

SizedBox(height: 20),

Text(

\_result,

style: TextStyle(fontSize: 20, fontWeight: FontWeight.bold),

textAlign: TextAlign.center,

),

],

),

),

);

}

}