

Departamento de Ciencias de la Computación Carrera de Ingeniería de Software Desarrollo de aplicaciones móviles

Lección 1.1 Prueba Práctica

TEMA:

Sacar números primos hasta un número.

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1. Código:

a. main.dart

```
import 'package:flutter/material.dart';
import 'pantalla/primos_pantalla.dart';
void main() {
  runApp(const MyApp());
class MyApp extends StatelessWidget {
  const MyApp({super.key});
  @override
  Widget build(BuildContext context) {
      title: 'Números Primos', // Título de la app mostrado en la pantalla
      theme: ThemeData(
        primaryColor: const Color(0xFF6C63FF),
        scaffoldBackgroundColor: const Color(0xFF1A1A2E),
        textTheme: const TextTheme(
          bodyMedium: TextStyle(color: Colors.white),
        elevatedButtonTheme: ElevatedButtonThemeData(
          style: ElevatedButton.styleFrom(
            backgroundColor: const Color(0xFF6C63FF),
            foregroundColor: Colors.white,
            padding: const EdgeInsets.symmetric(horizontal: 24, vertical: 16),
            shape: RoundedRectangleBorder(
              borderRadius: BorderRadius.circular(12),
            ),
          ),
        inputDecorationTheme: const InputDecorationTheme(
          filled: true,
          fillColor: Color(0xFF2A2A40),
          border: OutlineInputBorder(
            borderRadius: BorderRadius.all(Radius.circular(12)),
            borderSide: BorderSide.none,
          ),
          labelStyle: TextStyle(color: Colors.white70),
        ),
      home: const PrimosPantalla(), // Pantalla principal de la app
```

a. primos pantalla.dart

```
import 'package:flutter/material.dart';
   class PrimosPantalla extends StatefulWidget {
     const PrimosPantalla({super.key});
      @override
      _PrimosPantallaState createState() => _PrimosPantallaState();
12 class _PrimosPantallaState extends State<PrimosPantalla> {
      final TextEditingController _controller = TextEditingController();
      String _result = '';
      bool esPrimo(int num) {
        if (num < 2) return false;</pre>
        for (int i = 2; i * i <= num; i++) {
         if (num % i == 0) return false;
        return true;
      void calcularPrimos() {
        setState(() {
          int n = int.parse(_controller.text);
          StringBuffer primos = StringBuffer('Números primos hasta $n: ');
          for (int i = 1; i <= n; i++) {
           if (esPrimo(i)) {
              primos.write('$i ');
          _result = primos.toString();
        });
      @override
      Widget build(BuildContext context) {
          appBar: AppBar(
            title: const Text(
              'Números Primos',
              style: TextStyle(color: Colors.white),
            backgroundColor: const Color(
             0xFF6C63FF,
```

```
body: Padding(
      padding: const EdgeInsets.all(16.0),
      child: Column(
        crossAxisAlignment: CrossAxisAlignment.stretch,
        children: [
            controller: _controller,
            keyboardType: TextInputType.number,
            style: const TextStyle(color: Colors.white),
            decoration: const InputDecoration(labelText: 'Ingresa un número'),
          const SizedBox(height: 16), // Espacio vertical
            onPressed: calcularPrimos,
            child: const Text(
              'Calcular Primos',
              style: TextStyle(fontSize: 16),
           height: 24,
            child: SingleChildScrollView(
              child: Text(
                _result,
                style: const TextStyle(color: Colors.white, fontSize: 16),
@override
void dispose() {
  _controller.dispose();
  super.dispose();
```

2. Ejecución:

