



**Ingeniería de sistemas**

**Curso Libre Profesional II**

**Documento Paso a Paso de los procedimientos**

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Guía de Laboratorio del Cálculo del Salario Neto

**Estudiante:**

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**Numero de carnet:**

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**Maestro:**

Danilo Rodríguez Guerrero

Primero ejecutar le comando :

```
Windows PowerShell
-a----- 5/3/2025 7:10 PM 978 .bash_history
-a----- 4/27/2025 3:42 PM 16 .emulator_console_auth_token
-a----- 5/3/2025 6:31 PM 70 .gitconfig
-a----- 5/3/2025 7:03 PM 20 .lessht

PS C:\Users\juanR> cd .\Desktop\
PS C:\Users\juanR\Desktop> cd .\Desktop\
cd : No se encuentra la ruta de acceso 'C:\Users\juanR\Desktop\Desktop\' porque no existe.
En línea: 1 Carácter: 1
+ cd .\Desktop\
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (C:\Users\juanR\Desktop\Desktop:String) [Set-Location], ItemNotFoundException
+ FullyQualifiedErrorId : PathNotFound,Microsoft.PowerShell.Commands.SetLocationCommand

PS C:\Users\juanR\Desktop> .\desktop.ini
PS C:\Users\juanR\Desktop> ls

Directorio: C:\Users\juanR\Desktop

Mode                LastWriteTime         Length Name
----                -
d-----          5/3/2025  5:40 PM              next_gen_ui
d-----          5/3/2025  7:05 PM             Nuevacarpeta
-a-----          5/3/2025  7:18 PM           356 Enlaces_Entregable_Juan_Rivera_2112893.txt
-a-----          4/27/2025  2:22 PM          1774 Visual Studio 2022.lnk
-a-----          4/23/2025  9:01 PM          1400 Visual Studio Code.lnk

PS C:\Users\juanR\Desktop> cd .\Nuevacarpeta\
PS C:\Users\juanR\Desktop\Nuevacarpeta> flutter create calculadora_salario
```

Resultado:

```
Windows PowerShell

Directorio: C:\Users\juanR\Desktop

Mode                LastWriteTime         Length Name
----                -
d-----          5/3/2025  5:40 PM              next_gen_ui
d-----          5/3/2025  7:05 PM             Nuevacarpeta
-a-----          5/3/2025  7:18 PM           356 Enlaces_Entregable_Juan_Rivera_2112893.txt
-a-----          4/27/2025  2:22 PM          1774 Visual Studio 2022.lnk
-a-----          4/23/2025  9:01 PM          1400 Visual Studio Code.lnk

PS C:\Users\juanR\Desktop> cd .\Nuevacarpeta\
PS C:\Users\juanR\Desktop\Nuevacarpeta> flutter create calculadora_salario
Creating project calculadora_salario...
Resolving dependencies in 'calculadora_salario'... (2.7s)
Downloading packages...
Got dependencies in 'calculadora_salario'.
Wrote 130 files.

All done!
You can find general documentation for Flutter at: https://docs.flutter.dev/
Detailed API documentation is available at: https://api.flutter.dev/
If you prefer video documentation, consider: https://www.youtube.com/c/flutterdev

In order to run your application, type:

$ cd calculadora_salario
$ flutter run

Your application code is in calculadora_salario\lib\main.dart.

PS C:\Users\juanR\Desktop\Nuevacarpeta>
```

Segundo comando:

```
Windows PowerShell
PS C:\Users\juanR\Desktop\Nuevacarpeta> flutter create calculadora_salario
Creating project calculadora_salario...
Resolving dependencies in 'calculadora_salario'... (2.7s)
Downloading packages...
Got dependencies in 'calculadora_salario'.
Wrote 130 files.

All done!
You can find general documentation for Flutter at: https://docs.flutter.dev/
Detailed API documentation is available at: https://api.flutter.dev/
If you prefer video documentation, consider: https://www.youtube.com/c/flutterdev

In order to run your application, type:

$ cd calculadora_salario
$ flutter run

Your application code is in calculadora_salario\lib\main.dart.
PS C:\Users\juanR\Desktop\Nuevacarpeta> ls

Directorio: C:\Users\juanR\Desktop\Nuevacarpeta

Mode                LastWriteTime         Length Name
----                -
d-----          5/4/2025 12:54 PM             calculadora_salario
d-----          5/3/2025  7:11 PM             JuanRiveraIUDeUltimaGeneracionEnFlutter
-a-----          5/3/2025  5:43 PM    1073650517 JuanRiveraIUDeUltimaGeneracionEnFlutter.zip

PS C:\Users\juanR\Desktop\Nuevacarpeta> cd .\calculadora_salario\
```

Resultado

```
Windows PowerShell
Creating project calculadora_salario...
Resolving dependencies in 'calculadora_salario'... (2.7s)
Downloading packages...
Got dependencies in 'calculadora_salario'.
Wrote 130 files.

All done!
You can find general documentation for Flutter at: https://docs.flutter.dev/
Detailed API documentation is available at: https://api.flutter.dev/
If you prefer video documentation, consider: https://www.youtube.com/c/flutterdev

In order to run your application, type:

$ cd calculadora_salario
$ flutter run

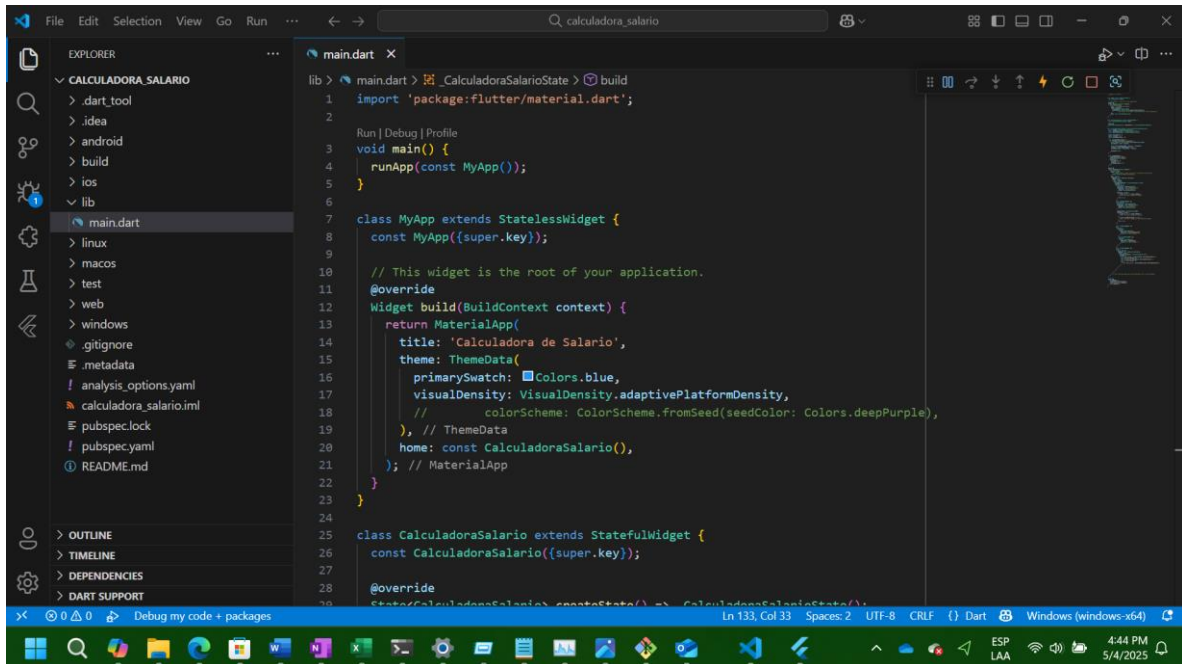
Your application code is in calculadora_salario\lib\main.dart.
PS C:\Users\juanR\Desktop\Nuevacarpeta> ls

Directorio: C:\Users\juanR\Desktop\Nuevacarpeta

Mode                LastWriteTime         Length Name
----                -
d-----          5/4/2025 12:54 PM             calculadora_salario
d-----          5/3/2025  7:11 PM             JuanRiveraIUDeUltimaGeneracionEnFlutter
-a-----          5/3/2025  5:43 PM    1073650517 JuanRiveraIUDeUltimaGeneracionEnFlutter.zip

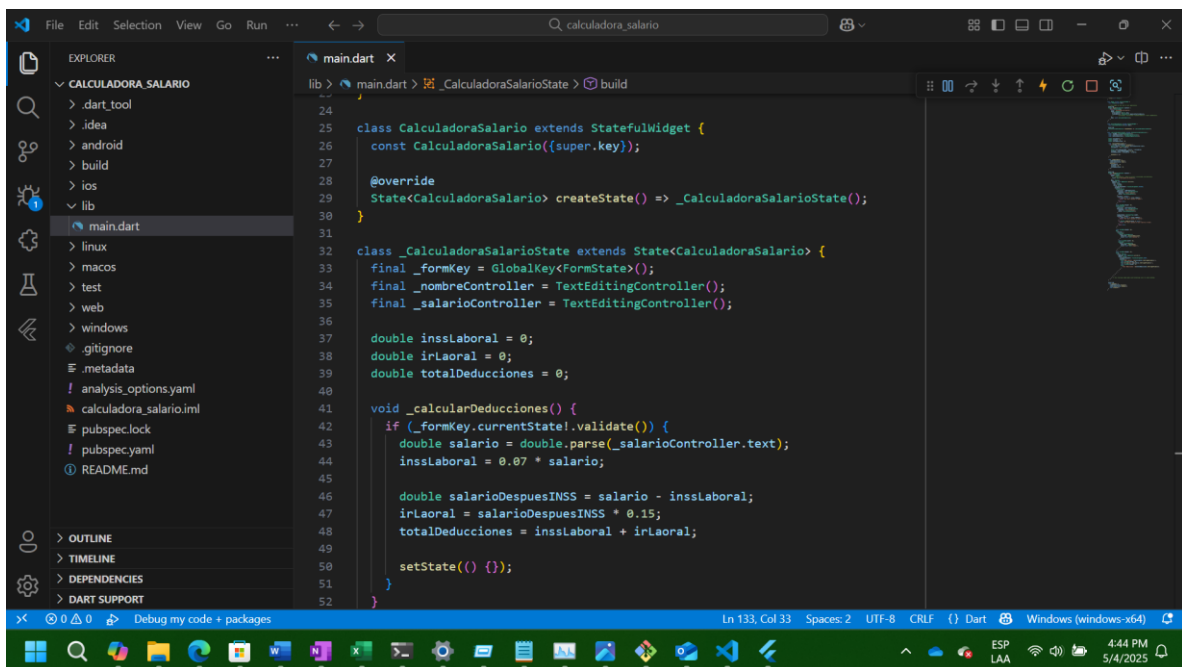
PS C:\Users\juanR\Desktop\Nuevacarpeta> cd .\calculadora_salario\
PS C:\Users\juanR\Desktop\Nuevacarpeta\calculadora_salario>
```

Ahora vamos a crear el archivo principal de la aplicación. Primero, vamos a modificar el archivo lib/main.dart:



The screenshot shows an IDE window with the file explorer on the left and the main.dart file open in the editor. The code in main.dart is as follows:

```
lib > main.dart > _CalculadoraSalarioState > build
1 import 'package:flutter/material.dart';
2
3 void main() {
4   runApp(const MyApp());
5 }
6
7 class MyApp extends StatelessWidget {
8   const MyApp({super.key});
9
10  // This widget is the root of your application.
11  @override
12  Widget build(BuildContext context) {
13    return MaterialApp(
14      title: 'Calculadora de Salario',
15      theme: ThemeData(
16        primarySwatch: Colors.blue,
17        visualDensity: VisualDensity.adaptivePlatformDensity,
18        // colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepPurple),
19      ), // ThemeData
20      home: const CalculadoraSalario(),
21    ); // MaterialApp
22  }
23
24
25 class CalculadoraSalario extends StatefulWidget {
26   const CalculadoraSalario({super.key});
27
28   @override
29   State<CalculadoraSalario> createState() => _CalculadoraSalarioState();
30 }
```



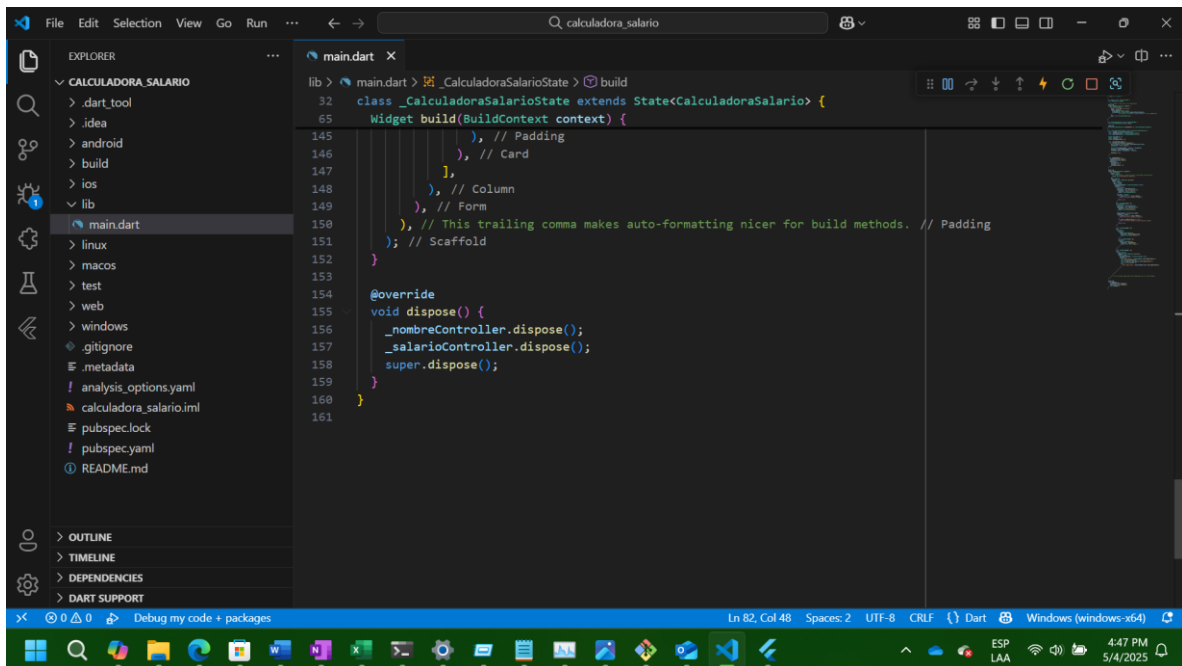
The screenshot shows the same IDE window, but the code in main.dart has been updated to include the stateful widget and its state class. The code is as follows:

```
lib > main.dart > _CalculadoraSalarioState > build
24
25 class CalculadoraSalario extends StatefulWidget {
26   const CalculadoraSalario({super.key});
27
28   @override
29   State<CalculadoraSalario> createState() => _CalculadoraSalarioState();
30 }
31
32 class _CalculadoraSalarioState extends State<CalculadoraSalario> {
33   final _formKey = GlobalKey<FormState>();
34   final _nombreController = TextEditingController();
35   final _salarioController = TextEditingController();
36
37   double inssLaboral = 0;
38   double irLaoral = 0;
39   double totalDeducciones = 0;
40
41   void _calcularDeducciones() {
42     if (_formKey.currentState!.validate()) {
43       double salario = double.parse(_salarioController.text);
44       inssLaboral = 0.07 * salario;
45
46       double salarioDespuesINSS = salario - inssLaboral;
47       irLaoral = salarioDespuesINSS * 0.15;
48       totalDeducciones = inssLaboral + irLaoral;
49
50       setState(() {});
51     }
52   }
53 }
```

```
lib > main.dart > _CalculadoraSalarioState > build
32 class _CalculadoraSalarioState extends State<CalculadoraSalario> {
65   Widget build(BuildContext context) {
81     labelText: 'Nombre Completo',
82     border: OutlineInputBorder(),
83   ), // InputDecoration
84   validator: (value) {
85     if (value == null || value.isEmpty) {
86       return 'Por favor ingrese su nombre;
87     }
88     return null;
89   },
90   ), // TextFormField
91   const SizedBox(height: 16),
92   TextFormField(
93     controller: _salarioController,
94     decoration: const InputDecoration(
95       labelText: 'Salario Mensual',
96       border: OutlineInputBorder(),
97     ), // InputDecoration
98     keyboardType: TextInputType.number,
99     validator: (value) {
100     if (value == null || value.isEmpty) {
101       return 'Por favor ingrese su salario;
102     }
103     if (double.tryParse(value) == null) {
104       return 'Por favor ingrese un valor numérico válido;
105     }
106     return null;
107   }
```

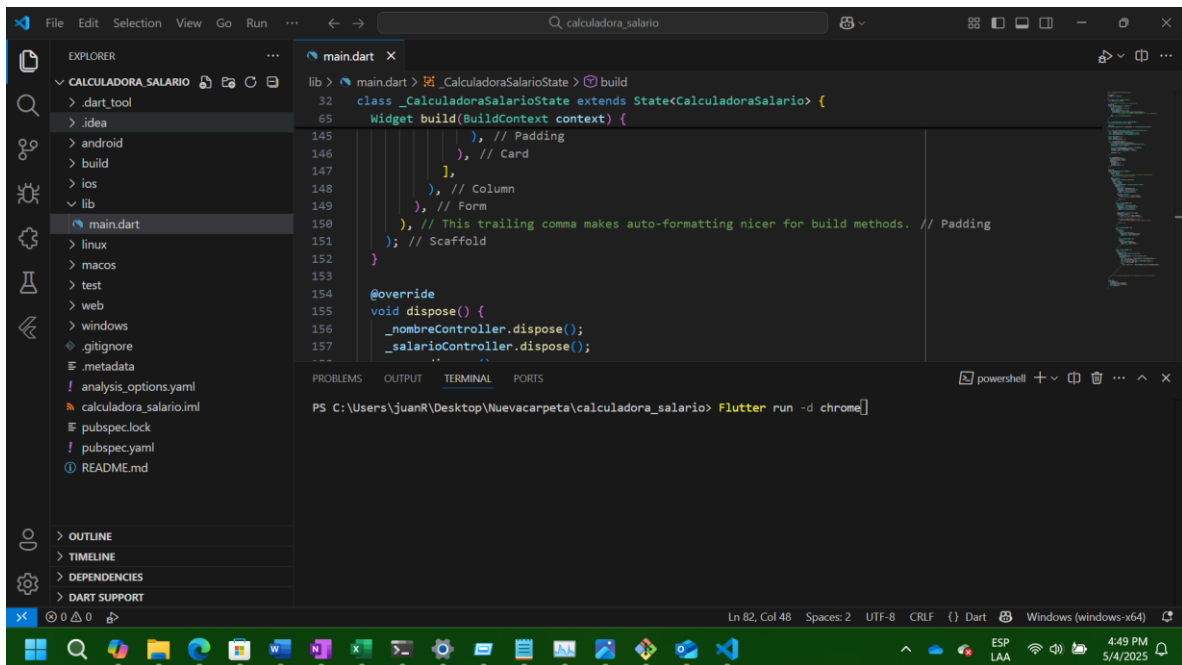
```
lib > main.dart > _CalculadoraSalarioState > build
32 class _CalculadoraSalarioState extends State<CalculadoraSalario> {
65   Widget build(BuildContext context) {
111     const SizedBox(height: 16),
112     Row(
113       children: [
114         Expanded(
115           child: ElevatedButton(
116             onPressed: _calcularDeducciones,
117             child: const Text('Calcular'),
118           ), // ElevatedButton
119         // Expanded
120       ],
121     ),
122     const SizedBox(width: 16),
123     Expanded(
124       child: ElevatedButton(
125         onPressed: _limpiarDatos,
126         child: const Text('Limpiar'),
127       ), // ElevatedButton
128     ), // Row
129     const SizedBox(height: 24),
130     Card(
131       child: Padding(
132         padding: const EdgeInsets.all(16.0),
133         child: Column(
134           crossAxisAlignment: CrossAxisAlignment.start,
135           children: [
136             Text('INSS Laboral: \${inssLaboral.toStringAsFixed(2)}'),
137             const SizedBox(height: 8),
138           ],
139         ),
140       ),
141     ),
142   ],
143 ), // Column
144 ), // Form
145 ); // This trailing comma makes auto-formatting nicer for build methods. // Padding
146 ); // Scaffold
```

```
lib > main.dart > _CalculadoraSalarioState > build
32 class _CalculadoraSalarioState extends State<CalculadoraSalario> {
65   Widget build(BuildContext context) {
126     // Expanded
127     ],
128   ), // Row
129   const SizedBox(height: 24),
130   Card(
131     child: Padding(
132       padding: const EdgeInsets.all(16.0),
133       child: Column(
134         crossAxisAlignment: CrossAxisAlignment.start,
135         children: [
136           Text('INSS Laboral: \${inssLaboral.toStringAsFixed(2)}'),
137           const SizedBox(height: 8),
138           Text('IR Laboral: \${irLaoral.toStringAsFixed(2)}'),
139           const SizedBox(height: 8),
140           Text(
141             'Total Deducciones: \${totalDeducciones.toStringAsFixed(2)}',
142           ), // Text
143         ],
144       ), // Column
145     ), // Padding
146   ), // Card
147 ],
148 ), // Column
149 ), // Form
150 ); // This trailing comma makes auto-formatting nicer for build methods. // Padding
151 ); // Scaffold
```

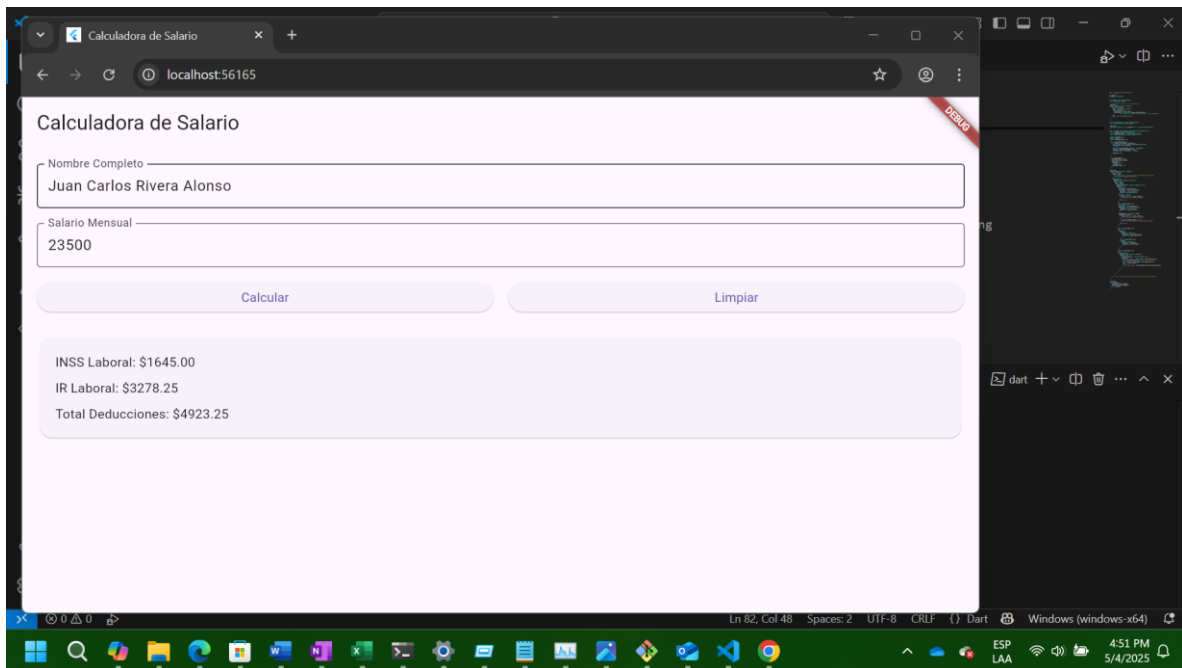


Ahora vamos a ejecutar la aplicación para probarla:

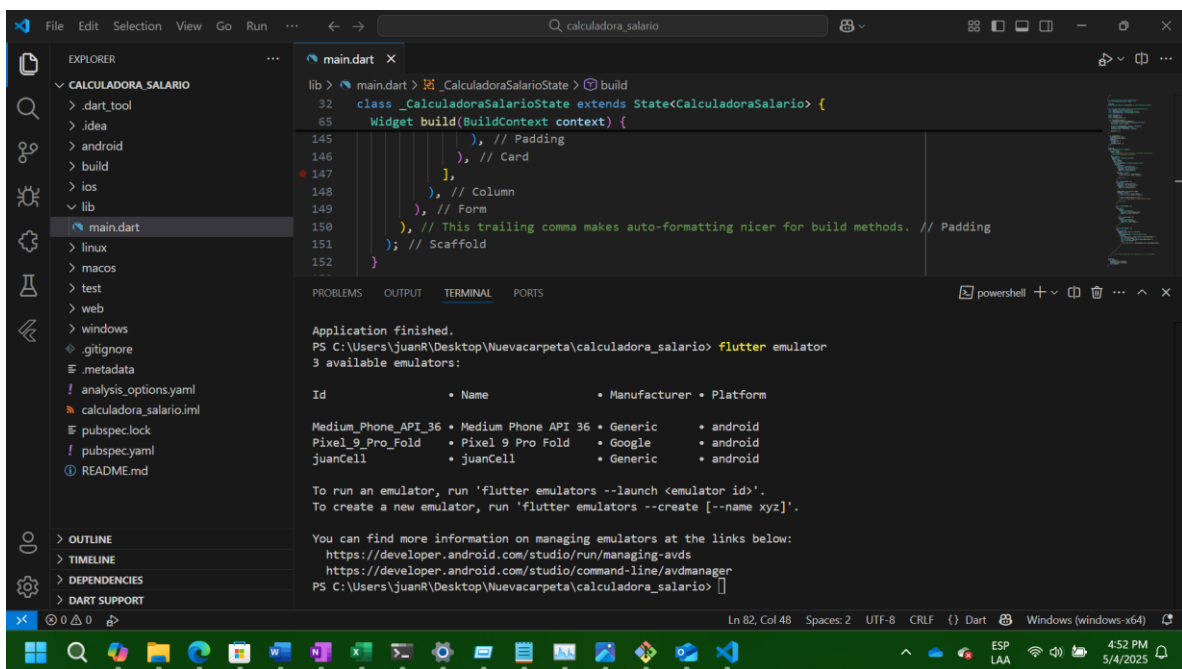
Flutter run -d chrome:



Resultado:



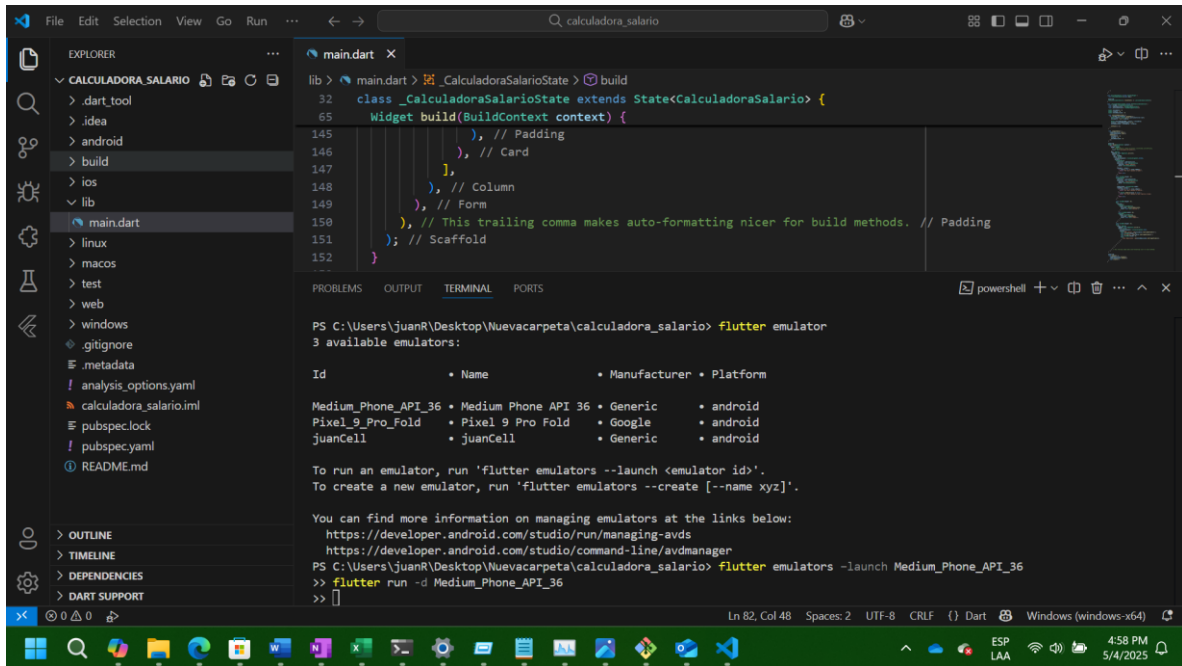
Ahora ejecutamos : flutter emulator



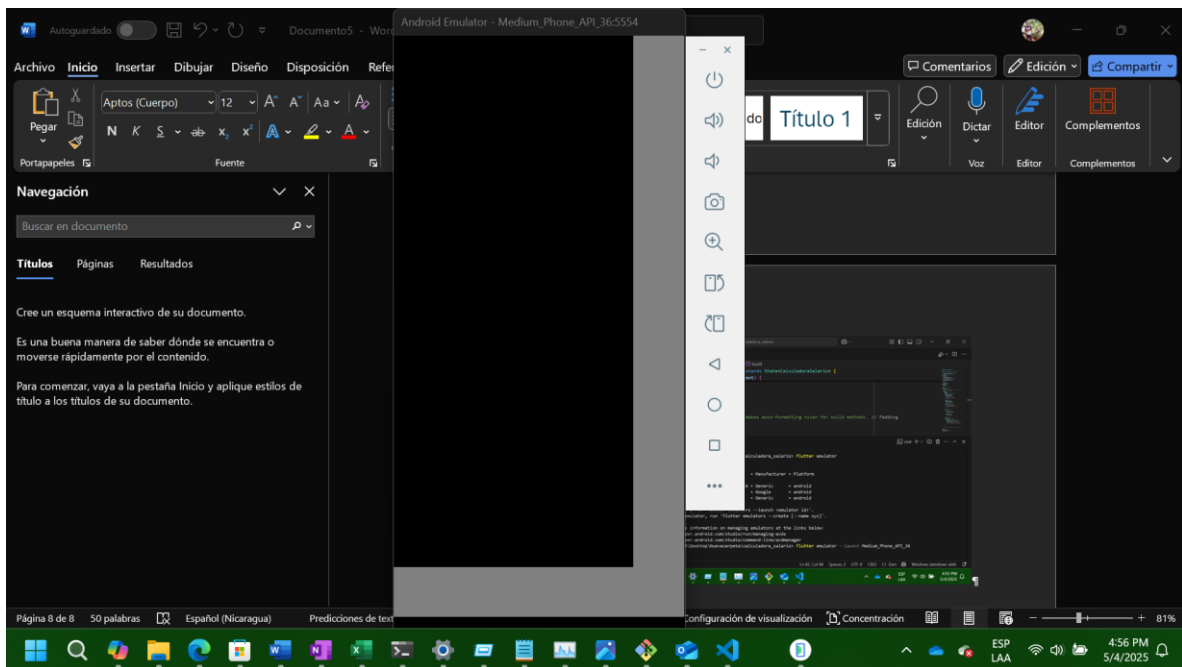
Ahora ejecutamos flutter emulators --launch Medium\_Phone\_API\_36

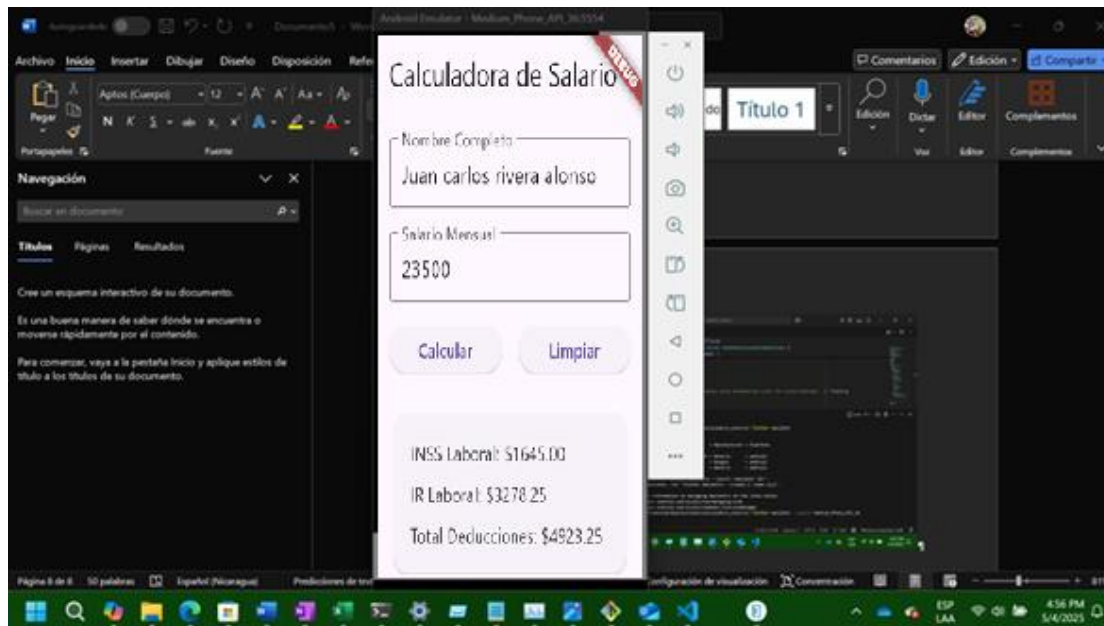
flutter run -d Medium\_Phone\_API\_36



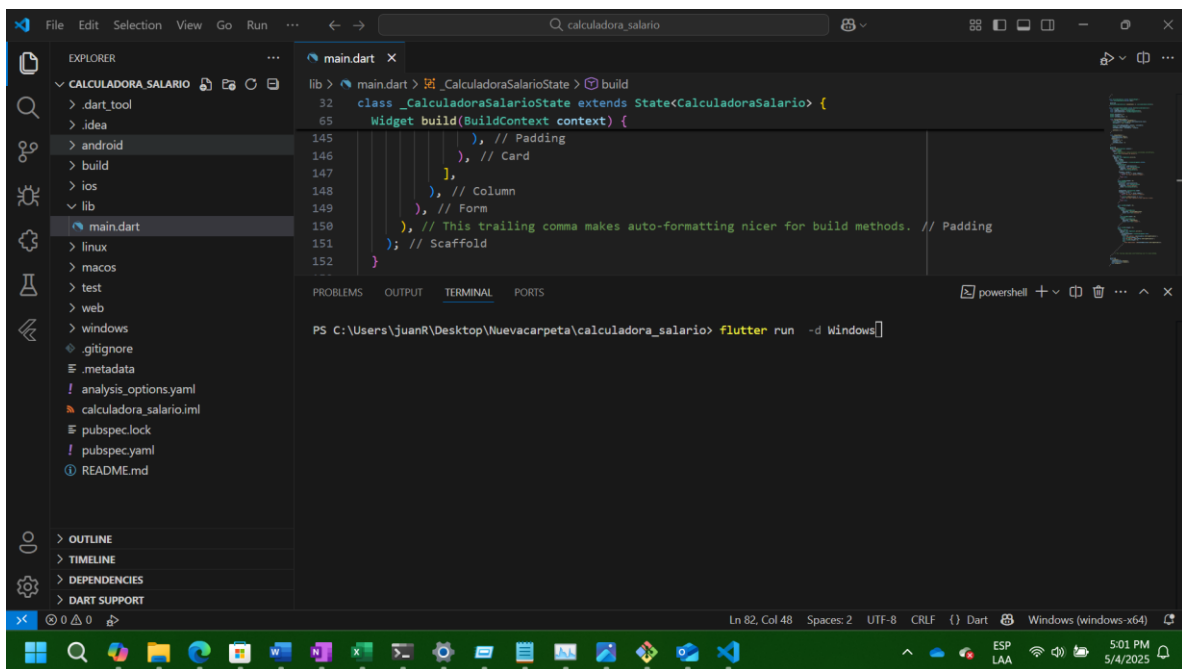


No abre el device seleccionado:





Ahora ejecutamos el comando flutter run -d Windows:



Resultado:

