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Materia: Desarrollo de Software para Móviles DSM441 G03L.

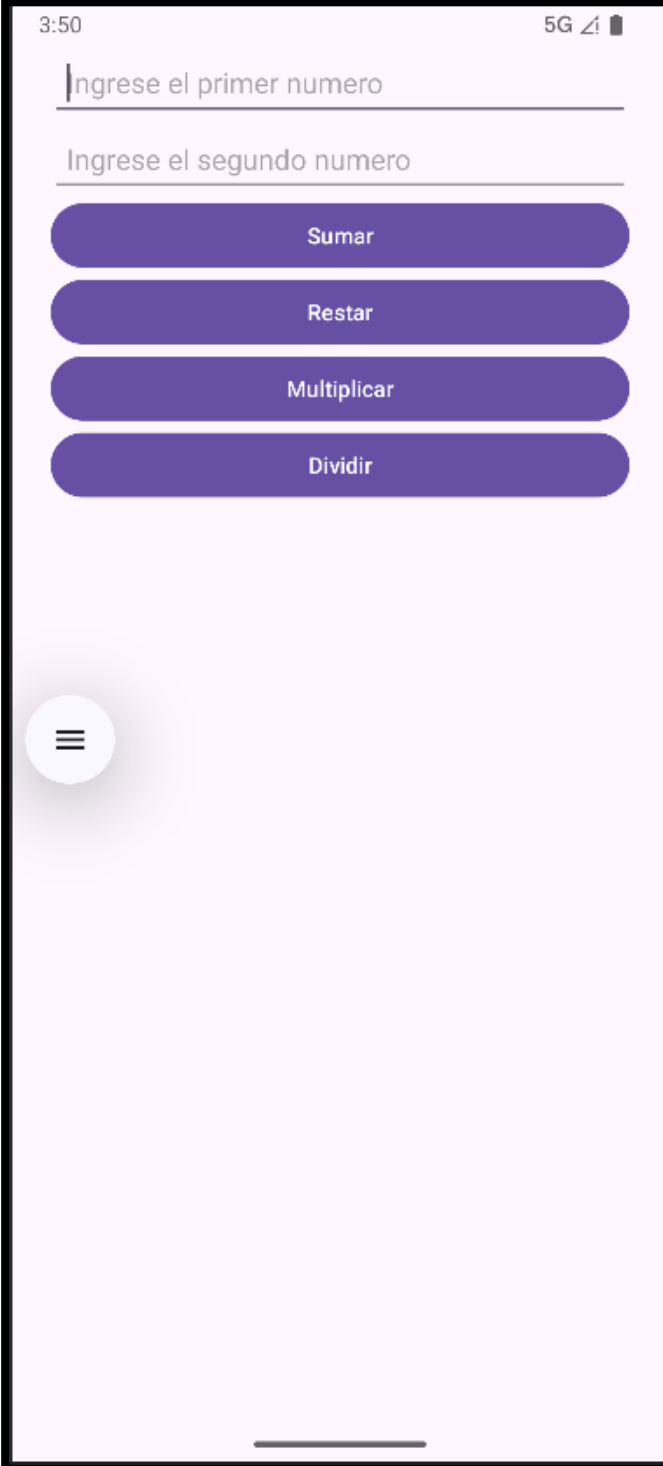
Actividad: Desafío Practico 1.

Enlace de GitHub: <https://github.com/Rodriguez503/DesafioPractico1-DSM.git>

Año: 2025.

Capturas de Pantalla del Funcionamiento.

Página Principal



The screenshot shows the main interface of a mobile application. At the top, the status bar displays the time 3:50, 5G connectivity, and a battery icon. Below the status bar, there are two input fields with placeholder text: "Ingrese el primer numero" and "Ingrese el segundo numero". Underneath these fields are four purple buttons with white text, stacked vertically: "Sumar", "Restar", "Multiplicar", and "Dividir". On the left side of the screen, there is a white circular button with a black hamburger menu icon (three horizontal lines). The background of the app is a light purple color. At the very bottom, there is a thin horizontal line, likely representing the home indicator on an iPhone.

Diseño de Actividad principal:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="24dp"
    android:gravity="center_horizontal">

    <EditText
        android:id="@+id/edtN1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Ingrese el primer numero"
        android:padding="10dp"
        android:height="48dp" />

    <EditText
        android:id="@+id/edtN2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Ingrese el segundo numero"
        android:padding="10dp"
        android:height="48dp"/>

    <Button
        android:id="@+id/btnSuman"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Suman" />
```

```
    <Button
        android:id="@+id/btnRestar"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Restar" />

    <Button
        android:id="@+id/btnMultiplicar"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Multiplicar" />

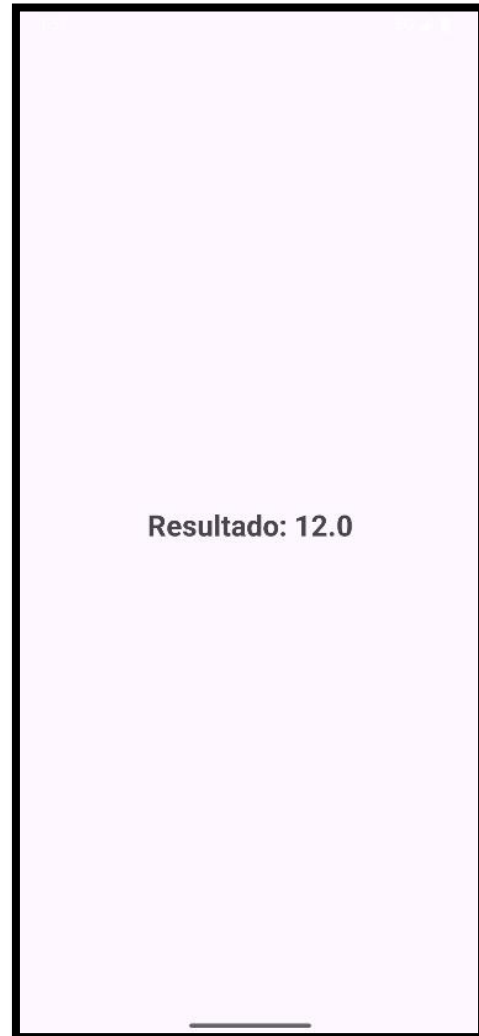
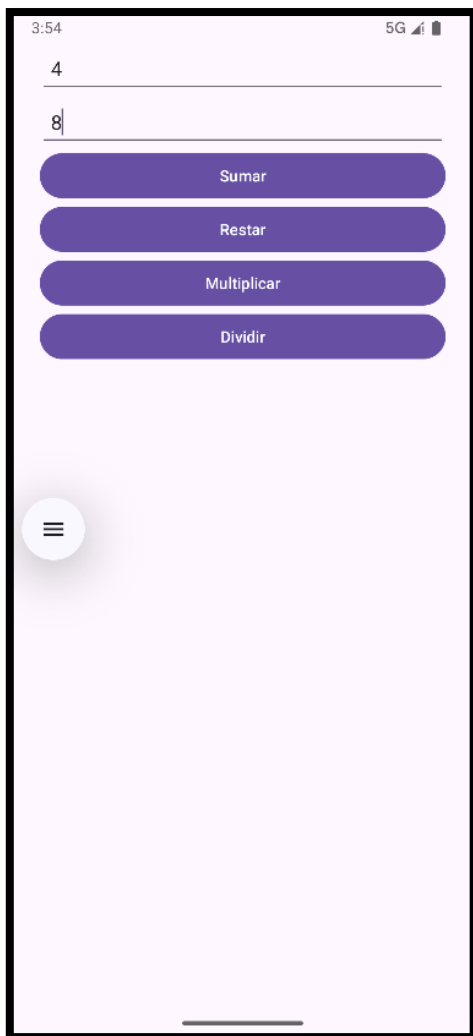
    <Button
        android:id="@+id/btnDividir"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Dividir" />

    <TextView
        android:id="@+id/tvResultado"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:paddingTop="12dp"
        android:text="Resultado"
        android:textSize="24sp"
        android:textStyle="bold"
        android:visibility="invisible" />
</LinearLayout>
```

Operación sumar

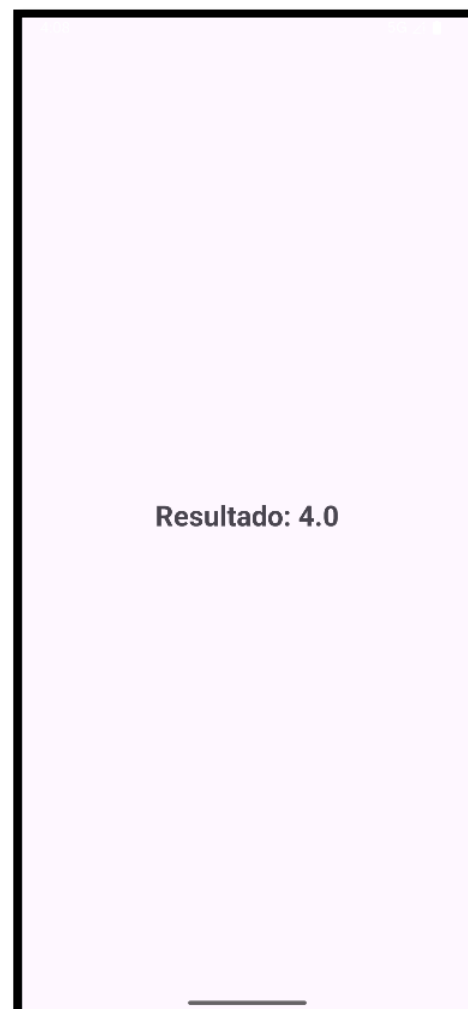
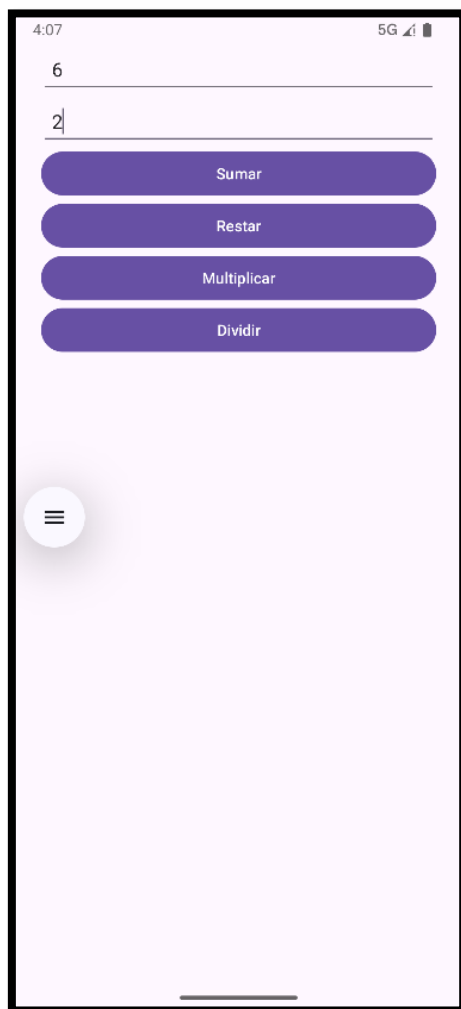
:

```
btnSuma.setOnClickListener {  
    var num1 = n1.text.toString().toFloat()  
    var num2 = n2.text.toString().toFloat()  
    val res = num1 + num2  
    resultado.text = res.toString()  
  
    val intent = Intent(packageContext: this, MainActivity2::class.java)  
    intent.putExtra(name: "resultado", res.toString())  
    startActivity(intent)  
}
```



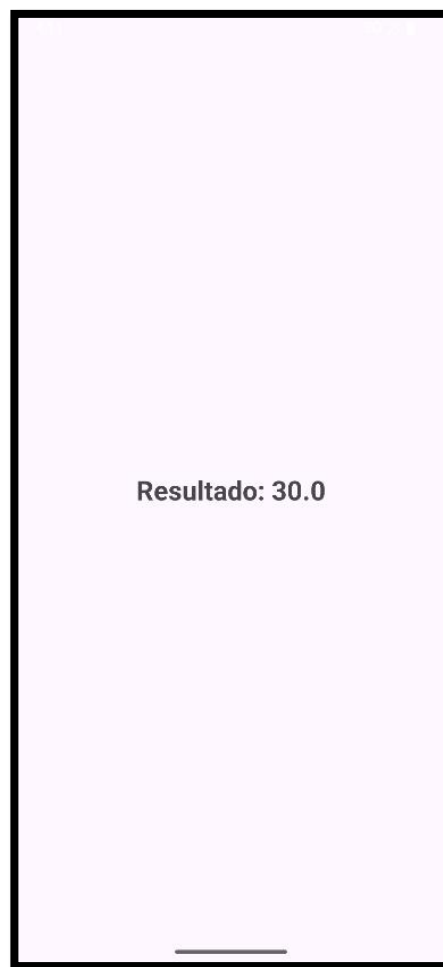
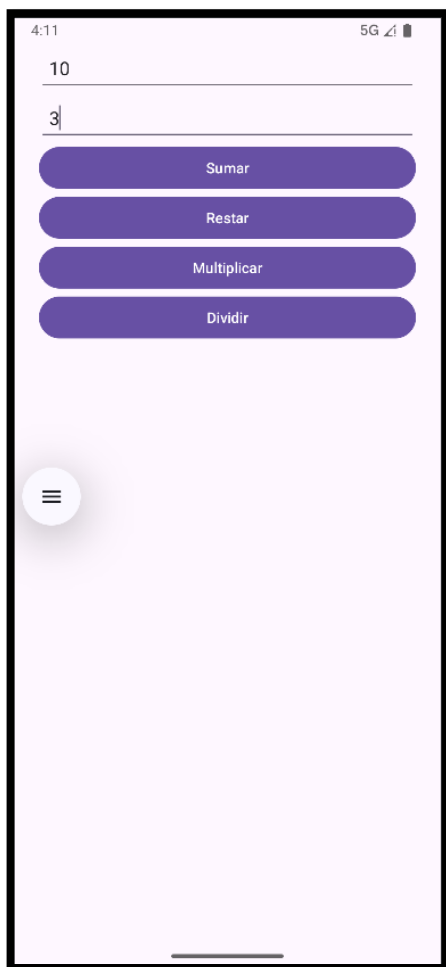
Operación Restar:

```
btnResta.setOnClickListener {  
    var num1 = n1.text.toString().toFloat()  
    var num2 = n2.text.toString().toFloat()  
    val res = num1 - num2  
    resultado.text = res.toString()  
  
    val intent = Intent(packageContext: this, MainActivity2::class.java)  
    intent.putExtra(name: "resultado", res.toString())  
    startActivity(intent)  
}
```



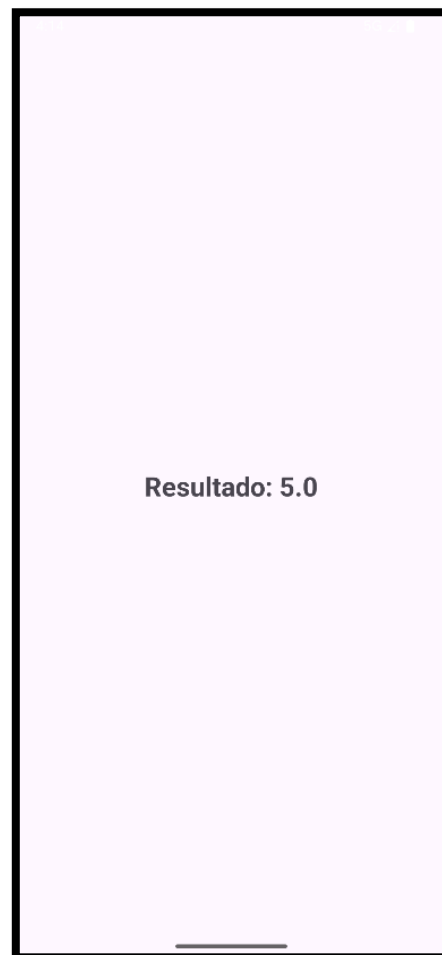
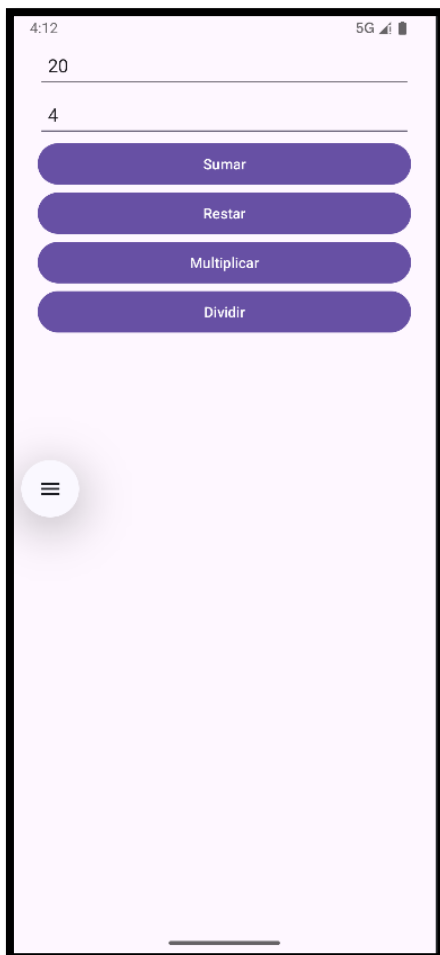
Operación Multiplicar:

```
btnMultiplicacion.setOnClickListener {  
    var num1 = n1.text.toString().toFloat()  
    var num2 = n2.text.toString().toFloat()  
    val res = num1 * num2  
    resultado.text = res.toString()  
  
    val intent = Intent( packageContext: this, MainActivity2::class.java)  
    intent.putExtra( name: "resultado", res.toString())  
    startActivity(intent)  
}
```



Operación Dividir:

```
btnDivision.setOnClickListener {  
    var num1 = n1.text.toString().toFloat()  
    var num2 = n2.text.toString().toFloat()  
    val res = num1 / num2  
    resultado.text = res.toString()  
  
    val intent = Intent(packageContext: this, MainActivity2::class.java)  
    intent.putExtra(name: "resultado", res.toString())  
    startActivity(intent)  
}
```



Actividad 2 donde se observa el resultado de las operaciones en ella:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center"
    android:padding="24dp">

    <TextView
        android:id="@+id/tvResultado"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Resultado"
        android:textSize="26sp"
        android:textStyle="bold"
        android:padding="10dp"/>

</LinearLayout>
```

```
package sv.edu.udb

import android.os.Bundle
import android.widget.TextView
import androidx.appcompat.app.AppCompatActivity

class MainActivity2 : AppCompatActivity() {

    lateinit var resultadoText: TextView

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main2)

        resultadoText = findViewById(R.id.tvResultado)

        val resultado = intent.getStringExtra(name: "resultado")
        resultadoText.text = "Resultado: $resultado"
    }
}
```