Tarea UT2.2.- Conceptos básicos para la programación de aplicaciones Android.

Sumar números con botón.

MainActivity.java

```
package com.example.calculadora;
import android.os.Bundle;
import android.widget.Button;
import android.widget.EditText;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
    protected void onCreate(Bundle savedInstanceState) {
        EdgeToEdge.enable(this);
       setContentView(R.layout.activity main);
            operador1 = (EditText) findViewById(R.id.editTextNumber);
Integer.parseInt(operador1.getText().toString());
Integer.parseInt(operador2.getText().toString());
        } catch (NumberFormatException e) {
```

```
resultado.setText("Error introduzca un numero correcto");
}
}
```

activity_main.xml

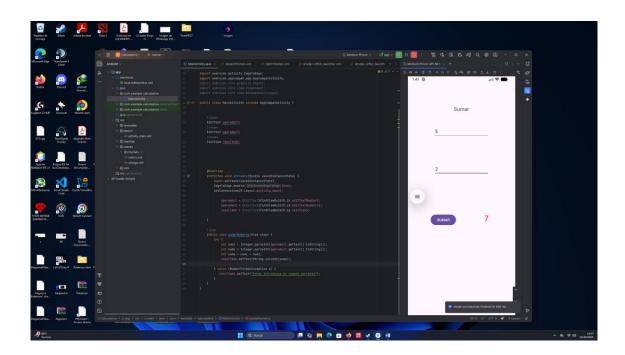
```
<androidx.constraintlayout.widget.ConstraintLayout</pre>
   android:layout width="match parent"
   android:layout height="match parent"
   <TextView
       android:id="@+id/textView4"
       android:layout width="wrap content"
       android:layout height="wrap content"
       app:layout_constraintTop_toTopOf="parent"
       app:layout constraintVertical bias="0.126" />
       android:layout marginStart="60dp"
       app:layout constraintBaseline toBaselineOf="@+id/textView"
       app:layout constraintEnd toStartOf="@+id/textView"
       app:layout constraintStart toStartOf="parent" />
   <TextView
       android:id="@+id/textView"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:layout marginTop="144dp"
       android:layout marginEnd="75dp"
       android:text="@string/resultado"
       android:textColor="@color/Red"
       android:textSize="30sp"
       app:layout constraintEnd toEndOf="parent"
       app:layout_constraintStart_toEndOf="@+id/button"
       app:layout_constraintTop toBottomOf="@+id/editTextNumber2" />
```

```
<EditText
    android:id="@+id/editTextNumber"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="48dp"
    android:ems="10"
    android:minHeight="48dp"
    android:minHeight="48dp"
    android:hint="@string/operando_1"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView4" />

android:id="@+id/editTextNumber2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="96dp"
    android:minHeight="48dp"
    android:minHeight="48dp"
    android:minHeight="48dp"
    android:hint="@string/operando_2"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextNumber" />

</p
```

Captura



Sumar números con botón programático.

```
package com.example.calculadora12;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
   protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       EdgeToEdge.enable(this);
       setContentView(R.layout.activity main);
       boton = (Button)findViewById(R.id.button);
Integer.parseInt(operador1.getText().toString());
Integer.parseInt(operador2.getText().toString());
                    int suma = num1 + num2;
                    resultado.setText(String.valueOf(suma));
                } catch (NumberFormatException e) {
```

activity_main.xml

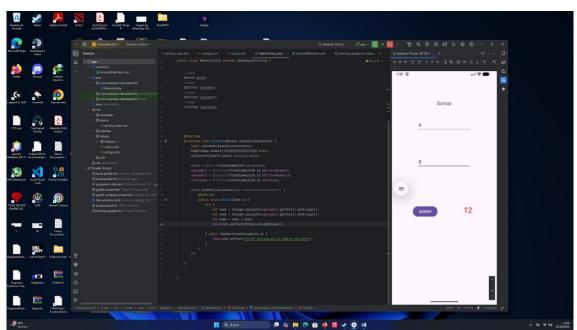
```
<?xml version="1.0" encoding="utf-8"?>
xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout width="match parent"
    <TextView
        app:layout constraintVertical bias="0.126" />
        app:layout_constraintStart_toStartOf="parent" />
        android:id="@+id/textView"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout marginTop="144dp"
        android:layout marginEnd="75dp"
        android:text="@string/resultado"
        android:textColor="@color/Red"
        android:textSize="30sp"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toEndOf="@+id/button"
    <EditText
```

```
android:id="@+id/editTextNumber"
android:layout_width="wrap_content"
android:layout_marginTop="48dp"
android:layout_marginTop="48dp"
android:ems="10"
android:minHeight="48dp"
android:hint="@string/operando_1"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.497"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/textView4" />

<EditText
android:id="@+id/editTextNumber2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="96dp"
android:minHeight="48dp"
android:minHeight="48dp"
android:minHeight="48dp"
android:hint="@string/operando_2"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/editTextNumber" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

Captura



Calculadora sencilla con definición única de clase manejadora de eventos.

```
package com.example.calculadorasencilla;
import android.os.Bundle;
import android.widget.Button;
import android.widget.Toast;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity implements
   EditText operador1;
EditText operador2;
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        botonresta = (Button) findViewById(R.id.buttonresta);
        botondivision = (Button) findViewById(R.id.buttondivision);
(Button) findViewById (R.id.buttonmultiplicacion);
```

```
Integer.parseInt(operador1.getText().toString());
Integer.parseInt(operador2.getText().toString());
               else if (v.getId() == R.id.buttonresta) {
            } else if (v.getId() == R.id.buttondivision) {
        }catch (NumberFormatException e) {
```

activity main.xml

```
<androidx.constraintlayout.widget.ConstraintLayout</pre>
   android:layout width="match parent"
   android:layout height="match parent"
   <TextView
       android:id="@+id/textView4"
       android:layout height="wrap content"
       android:text="@string/sumar'
       android:textSize="20dp"
       app:layout constraintHorizontal bias="0.498"
       app:layout constraintVertical bias="0.126" />
       android:layout width="wrap content"
       android:layout marginBottom="104dp"
       app:layout constraintBottom toTopOf="@+id/textView"
       app:layout constraintEnd toEndOf="parent"
       app:layout constraintStart toStartOf="parent" />
       android:id="@+id/buttonresta"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:layout marginBottom="104dp"
       android:text="@string/restar"
       app:layout constraintBottom toTopOf="@+id/textView"
       app:layout constraintEnd toEndOf="parent"
       app:layout_constraintHorizontal bias="0.752"
       app:layout_constraintStart toStartOf="parent" />
       android:id="@+id/buttondivision"
       android:layout width="104dp"
       android:layout height="49dp"
       android:layout marginBottom="28dp"
```

```
android:text="@string/dividir'
       app:layout constraintBottom toTopOf="@+id/textView"
       app:layout_constraintStart toStartOf="parent" />
       android:layout width="wrap content"
       android:layout height="wrap content"
       app:layout constraintEnd toEndOf="parent"
       app:layout_constraintHorizontal bias="0.248"
       app:layout_constraintStart toStartOf="parent" />
   <TextView
       android:id="@+id/textView"
       android:layout width="wrap content"
       android:layout_height="wrap_content"
       android:layout_marginTop="220dp"
       android:textColor="@color/Red"
       android:layout_height="wrap_content"
       android:inputType="number"
       app:layout constraintEnd toEndOf="parent"
       app:layout constraintHorizontal bias="0.497"
       app:layout constraintStart toStartOf="parent"
       app:layout constraintTop toBottomOf="@+id/textView4" />
   <EditText
       android:id="@+id/editTextNumber2"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:layout marginTop="96dp"
       android:inputType="number"
       app:layout constraintEnd toEndOf="parent"
       app:layout constraintStart toStartOf="parent"
       app:layout constraintTop toBottomOf="@+id/editTextNumber" />
Z/androidx.constraintlayout.widget.ConstraintLayout>
```

Captura

