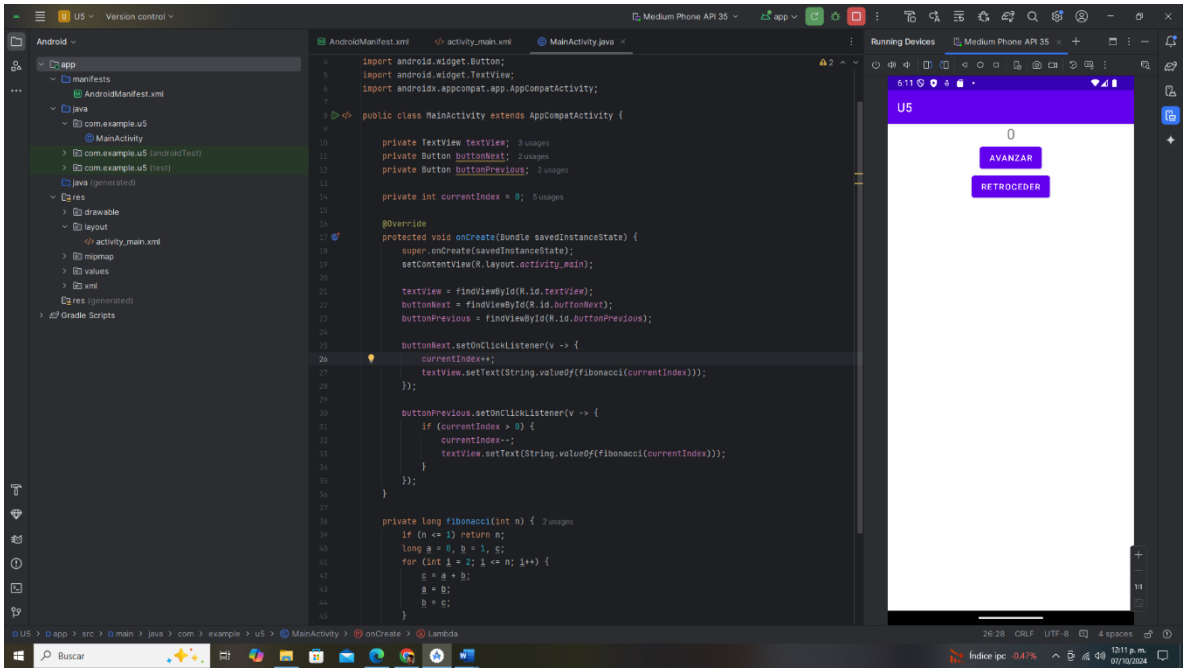
David Alejando Galicia Cárdenas

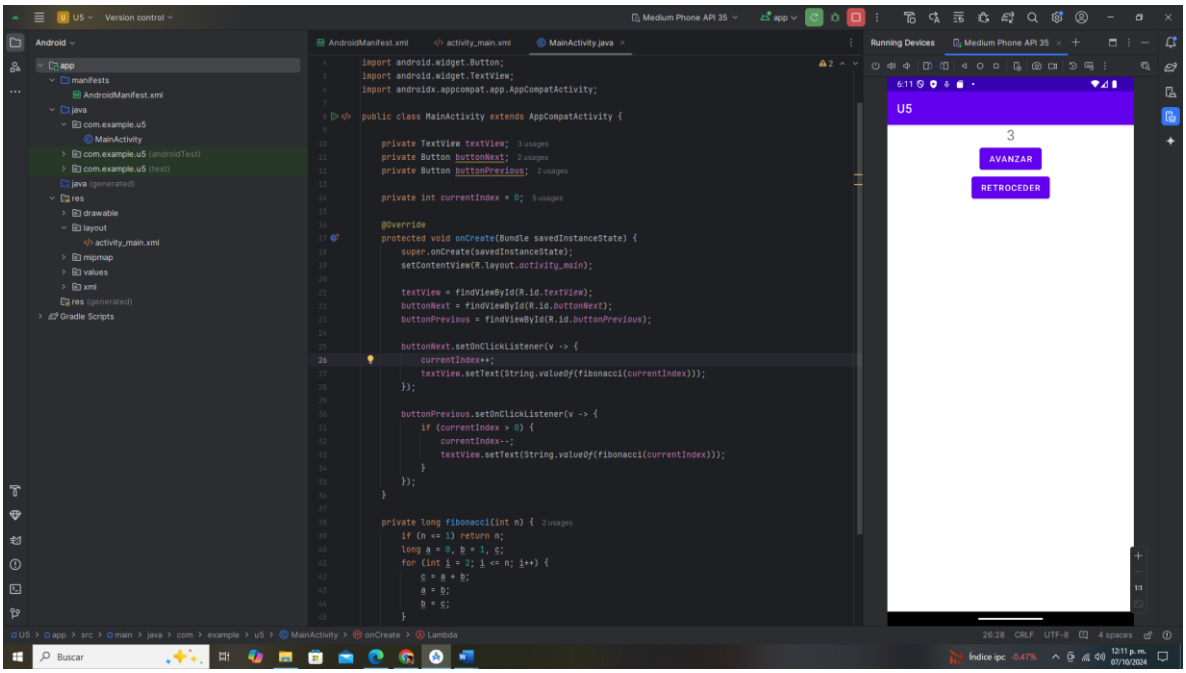
Programación en Dispositivos Móviles

2025 – 1

Unidad 5 - Actividad 1

7 de octubre del 2024


U5
Version control
Medium Phone API 35
app
Android
AndroidManifest.xml
activity_main.xml
MainActivity.java
app
manifests
AndroidManifest.xml
java
com.example.u5
MainActivity
com.example.u5 (androidTest)
com.example.u5 (test)
java (generated)
res
drawable
layout
activity_main.xml
mipmap
values
xml
res (generated)
Gradle Scripts
import android.widget.Button;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
private TextView textView; 3 usages
private Button buttonNext; 2 usages
private Button buttonPrevious; 2 usages
private int currentIndex = 0; 5 usages
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
textView = findViewById(R.id.textView);
buttonNext = findViewById(R.id.buttonNext);
buttonPrevious = findViewById(R.id.buttonPrevious);
buttonNext.setOnClickListener(v -> {
currentIndex++;
textView.setText(String.valueOf(fibonacci(currentIndex)));
});
buttonPrevious.setOnClickListener(v -> {
if (currentIndex > 0) {
currentIndex--;
textView.setText(String.valueOf(fibonacci(currentIndex)));
}
});
}
private long fibonacci(int n) { 2 usages
if (n <= 1) return n;
long a = 0, b = 1, c;
for (int i = 2; i <= n; i++) {
c = a + b;
a = b;
b = c;
}
Running Devices
Medium Phone API 35
U5
0
AVANZAR
RETROCEDER
26:28
CRLF
UTF-8
4 spaces
Buscar
Índice ipc -0.47%
12:11 p. m.
07/10/2024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});
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c = a + b;
a = b;
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}
Running Devices
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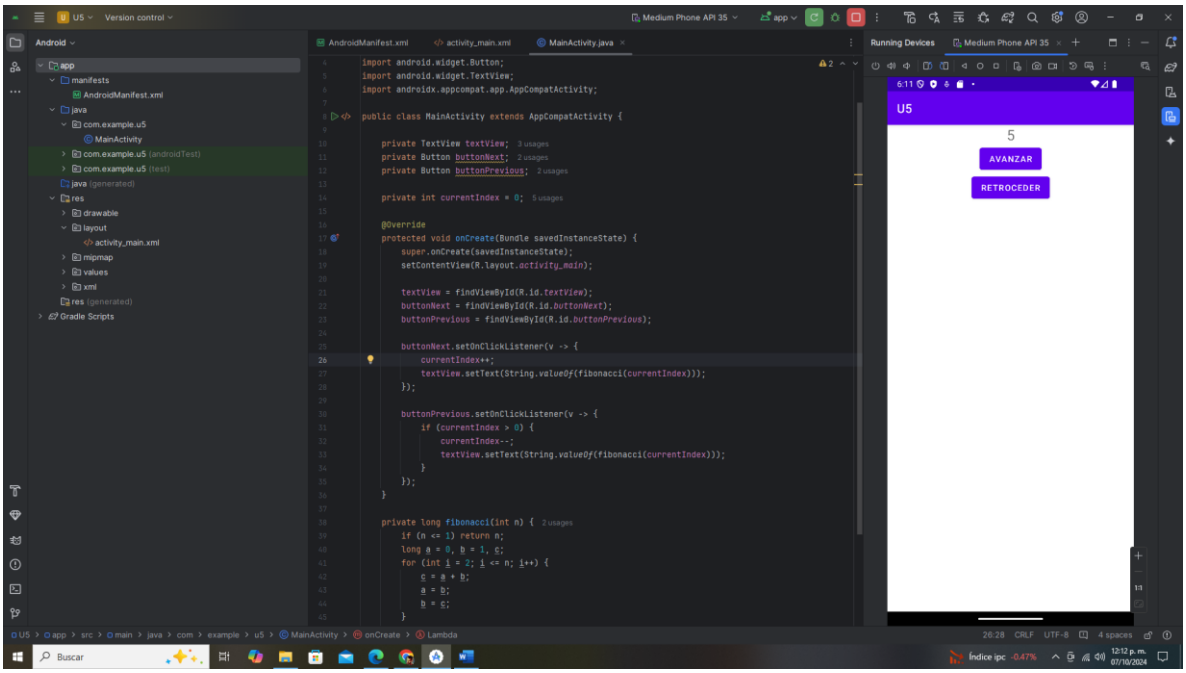
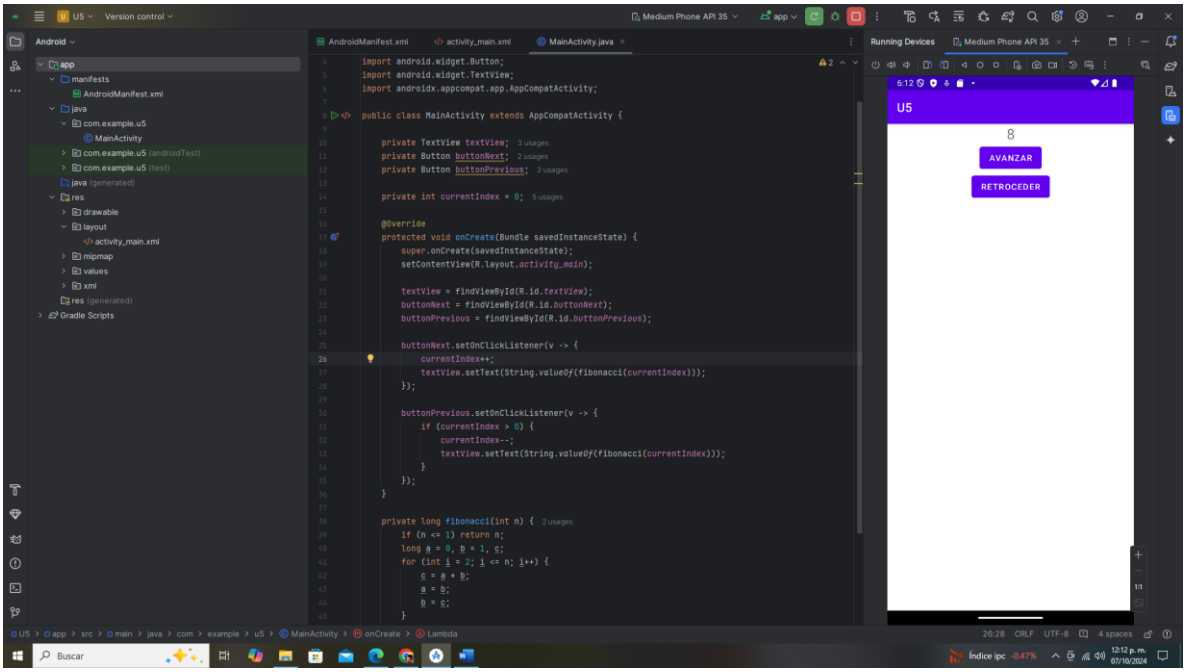
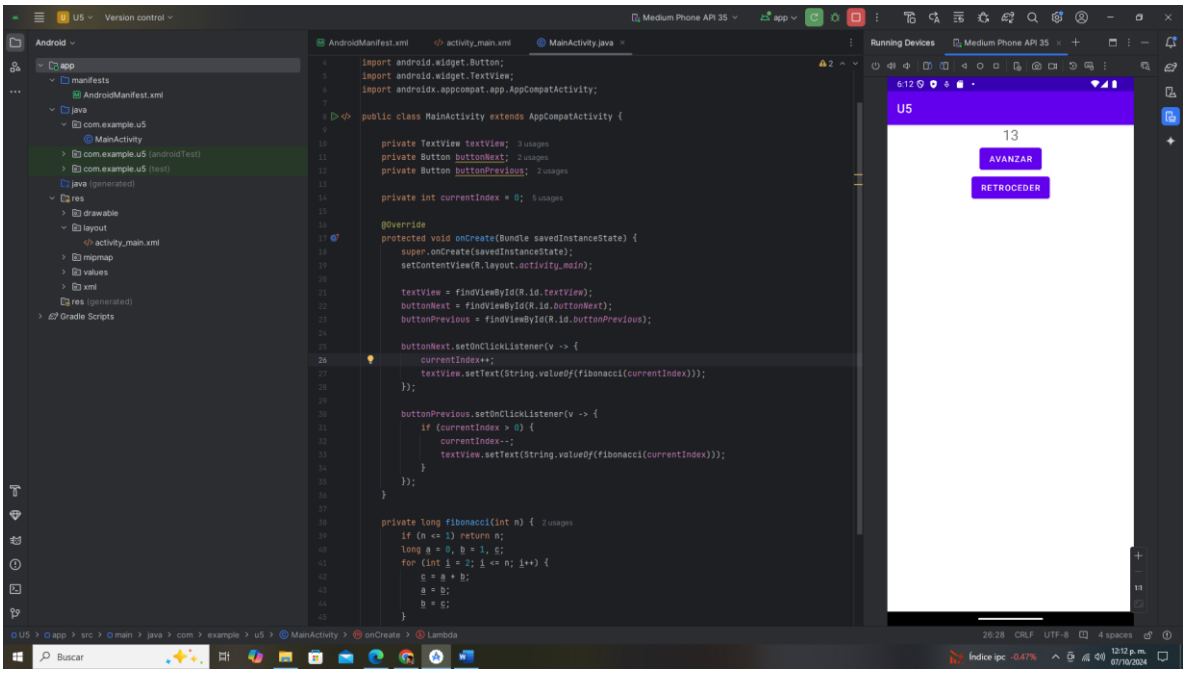
AVANZAR
RETROCEDER
26:28
CRLF
UTF-8
4 spaces
Buscar
Índice ipc -0.47%
12:11 p. m.
07/10/2024


U5
5
AVANZAR
RETROCEDER


U5
8
AVANZAR
RETROCEDER



Código fuente

```
package com.example.u5;

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

public class MainActivity extends AppCompatActivity {

    private TextView textView;
    private Button buttonNext;
    private Button buttonPrevious;

    private int currentIndex = 0;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        textView = findViewById(R.id.textView);
        buttonNext = findViewById(R.id.buttonNext);
        buttonPrevious = findViewById(R.id.buttonPrevious);

        buttonNext.setOnClickListener(v -> {
            currentIndex++;
            textView.setText(String.valueOf(fibonacci(currentIndex)));
        });

        buttonPrevious.setOnClickListener(v -> {
            if (currentIndex > 0) {
                currentIndex--;
                textView.setText(String.valueOf(fibonacci(currentIndex)));
            }
        });
    }

    private long fibonacci(int n) {
        if (n <= 1) return n;
        long a = 0, b = 1, c;
        for (int i = 2; i <= n; i++) {
            c = a + b;
            a = b;
            b = c;
        }
        return b;
    }
}
```

Conclusión

Ya había hecho algo similar con Fibonacci hace 1 año aproximadamente, lo más complejo fue hacer que los botones funcionaran en la interfaz.