

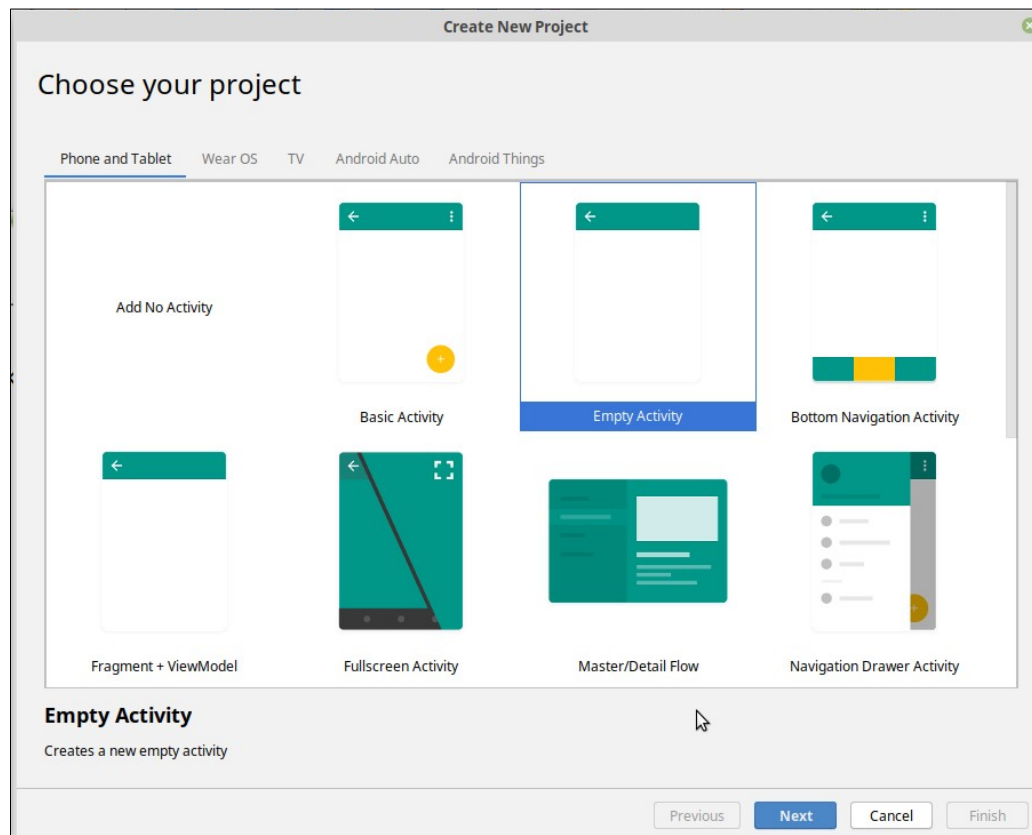
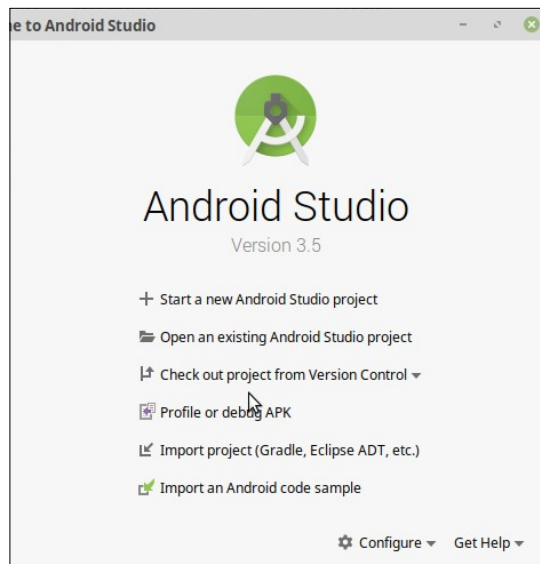
Mobil megoldások

1. óra

Kocsis Gergely

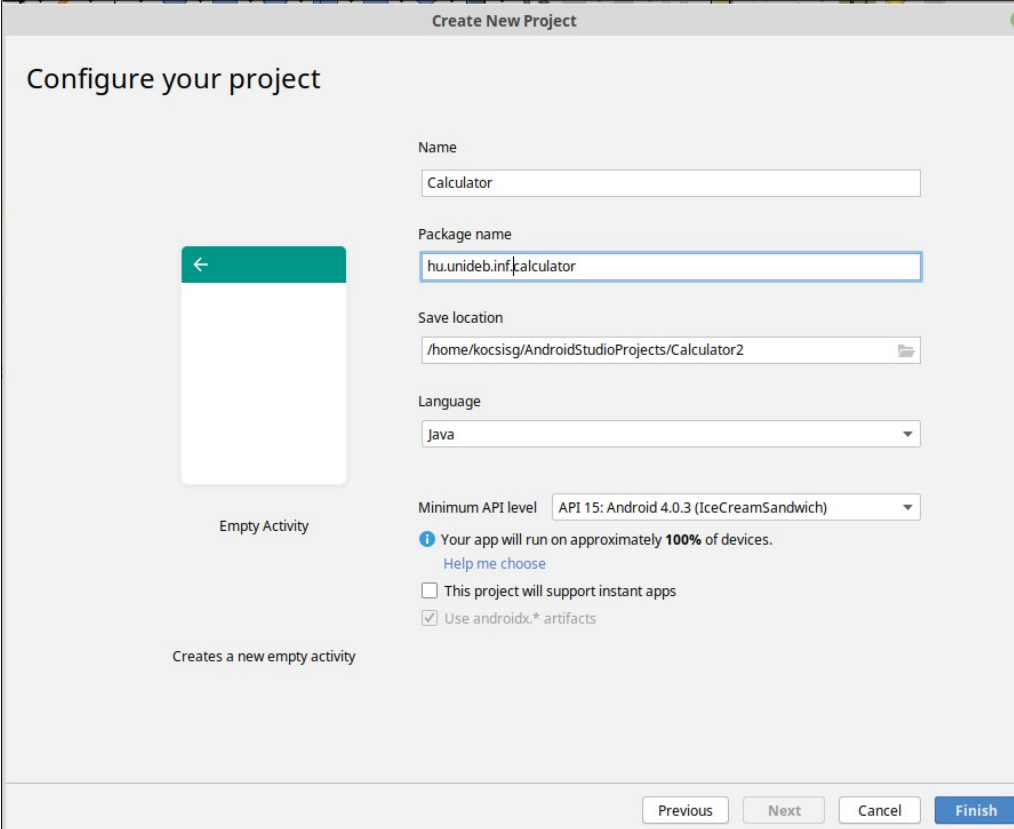
A projekt

Készítsünk egyszerű számítógép alkalmazást Android Studio segítségével.



A projekt

Projekt létrehozása



Create New Project

Configure your project

Name
Calculator

Package name
hu.unideb.inf.calculator

Save location
/home/kocsisg/AndroidStudioProjects/Calculator2

Language
Java

Minimum API level
API 15: Android 4.0.3 (IceCreamSandwich)

i Your app will run on approximately **100%** of devices.
[Help me choose](#)

☐ This project will support instant apps

☒ Use androidx.* artifacts

Empty Activity

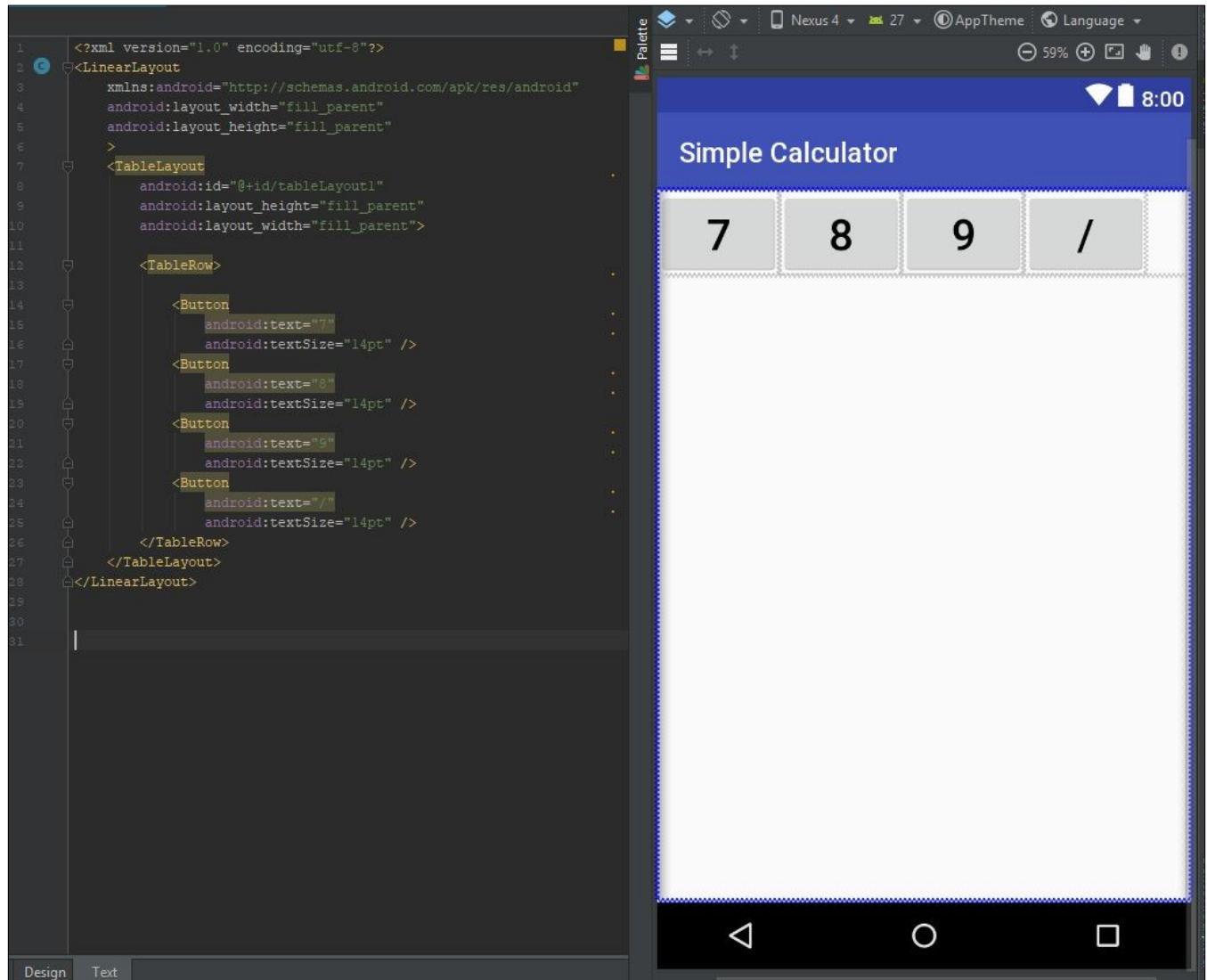
Creates a new empty activity

Previous Next Cancel Finish



A felület kialakítása

A felület kialakítása



A működés hozzáadása - Java

Id és eseményvezérlés

Id-hez kapcsolás példa:

```
private TextView result;

@Override
protected void onCreate(Bundle
savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    result =
findViewById(R.id.resultTextView);
}
```

Kezelő metódus példa:

```
public void handleClick(View view) {
    Button btn = (Button)view;
    switch (btn.getText().toString()){
        case "CE" : result.setText("0"); break;
        case "=" : result.setText(calculateResult(result.getText().toString())); break;
        default : if (result.getText().toString().equals("0")||
                    result.getText().toString().equals("inf")) result.setText("");
                    result.append(btn.getText().toString());
    }
}
```

```
<Button
    android:text="7"
    android:textSize="14pt"
    android:id="@+id/button7"
    android:layout_width="25pt"
    android:layout_height="25pt"
    android:layout_weight="1"
    android:onClick="handleClick" />
```



A működés hozzáadása - Kotlin

Id és eseményvezérlés

Id-hez kapcsolás példa:

```
private lateinit var result: TextView

override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_main)
    result =
        findViewById(R.id.resultTextView)
}
```

```
<Button
    android:text="7"
    android:textSize="14pt"
    android:id="@+id/button7"
    android:layout_width="25pt"
    android:layout_height="25pt"
    android:layout_weight="1"
    android:onClick="handleClick" />
```

Kezelő metódus példa:

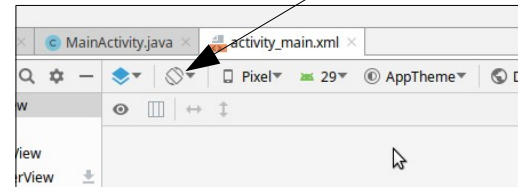
```
fun handleClick(view: android.view.View) {
    val btn = view as Button
    when (btn.text.toString()) {
        "CE" -> result.text = "0"
        "=" -> result.setText(calculateResult(result.text.toString()))
        else -> {
            if (result.text.toString() == "0" || result.text.toString() == "inf") result.text = ""
            result.append(btn.text.toString())
        }
    }
}
```



Tájolás

Tájolás elforgatásra

Landscape



```
1 <?xml version="1.0" encoding="utf-8"?>
2 <manifest xmlns:android="http://schemas.android.com/apk/res/android"
3     package="com.example.calculator">
4
5     <application
6         android:allowBackup="true"
7         android:icon="@mipmap/ic_launcher"
8         android:label="Calculator"
9         android:roundIcon="@mipmap/ic_launcher_round"
10        android:supportsRtl="true"
11        android:theme="@style/AppTheme">
12        <activity android:name=".MainActivity"
13            android:screenOrientation="portrait">
14            <intent-filter>
15                <action android:name="android.intent.action.MAIN">
16
17                <category android:name="android.intent.category.LAUNCHER">
18
19            </intent-filter>
20        </activity>
21    </application>
22
23 </manifest>
```