

Activity_Main

```
</> activity_main.xml ×
1  <LinearLayout xmlns:android="http://schemas.android.com/apk/res
2      xmlns:app="http://schemas.android.com/apk/res-auto"
3      xmlns:tools="http://schemas.android.com/tools"
4      android:id="@+id/main"
5      android:layout_width="match_parent"
6      android:layout_height="match_parent"
7      android:background="@color/black"
8      android:orientation="vertical"
9      tools:context=".MainActivity">
10     <LinearLayout
11         android:layout_width="match_parent"
12         android:layout_height="0dp"
13         android:layout_weight="1"
14         android:background="@color/black"
15         android:gravity="bottom"
16         android:orientation="vertical"
17         android:padding="10dp">
18         <TextView
19             android:id="@+id/input"
20             android:layout_width="match_parent"
21             android:layout_height="wrap_content"
22             android:gravity="end"
23             android:textColor="@color/white"
24             android:textSize="50sp"
25             tools:text="5+10=3" />
26         <TextView
27             android:id="@+id/output"
28             android:layout_width="match_parent"
29             android:layout_height="wrap_content"
30             android:gravity="end"
31             android:textColor="@color/white"
32             android:textSize="72sp"
33             tools:text="12" />
34     </LinearLayout>
35     <TableLayout
36         android:layout_width="match_parent"
37         android:layout_height="wrap_content"
38         android:layout_margin="10dp"
39
40         android:stretchColumns="*">
41         <TableRow>
42             <androidx.appcompat.widget.AppCompatButton
43                 android:id="@+id/button_clear"
44                 style="@style/Button_Style"
45                 android:layout_width="wrap_content"
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        style="@style/Button_Style"
        android:layout_width="wrap_content"
        android:layout_height="90dp"
        android:text="AC"
        android:onClick="playErase"
        android:textColor="@color/white"
        android:background="@drawable/shapefortop"/>
    <androidx.appcompat.widget.AppCompatButton
        android:id="@+id/button_bracket_left"
        style="@style/Button_Style"
        android:layout_width="wrap_content"
        android:layout_height="90dp"
        android:text="/"
        android:onClick="playClick"
        android:background="@drawable/shapefortop"
        android:textColor="@color/white" />
    <androidx.appcompat.widget.AppCompatButton
        android:id="@+id/button_bracket_right"
        style="@style/Button_Style"
        android:layout_width="wrap_content"
        android:background="@drawable/shapefortop"
        android:layout_height="90dp"
        android:text=")"
        android:onClick="playClick"
        android:textColor="@color/white" />
    <androidx.appcompat.widget.AppCompatButton
        android:id="@+id/button_division"
        style="@style/Button_Style"
        android:layout_width="wrap_content"
        android:layout_height="90dp"
        android:text="/"
        android:onClick="playClick"
        android:background="@drawable/shapefororange"
        android:textColor="@color/white" />
</TableRow>
<TableRow>
    <androidx.appcompat.widget.AppCompatButton
        android:id="@+id/button_7"
        style="@style/Button_Style"
        android:onClick="playClick"
        android:layout_width="wrap_content"

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        style="@style/Button_Style"
        android:onClick="playClick"
        android:layout_width="wrap_content"
        android:layout_height="90dp"
        android:text="8" />
<androidx.appcompat.widget.AppCompatButton
    android:id="@+id/button_9"
    style="@style/Button_Style"
    android:onClick="playClick"
    android:layout_width="wrap_content"
    android:layout_height="90dp"
    android:text="9" />
<androidx.appcompat.widget.AppCompatButton
    android:id="@+id/button_multiply"
    style="@style/Button_Style"
    android:onClick="playClick"
    android:layout_width="wrap_content"
    android:layout_height="90dp"
    android:text="x"
    android:background="@drawable/shapefororange"
    android:textColor="@color/white" />
</TableRow>
<TableRow>
    <androidx.appcompat.widget.AppCompatButton
        android:id="@+id/button_4"
        style="@style/Button_Style"
        android:layout_width="wrap_content"
        android:layout_height="90dp"
        android:onClick="playClick"
        android:text="4" />
    <androidx.appcompat.widget.AppCompatButton
        android:id="@+id/button_5"
        style="@style/Button_Style"
        android:onClick="playClick"
        android:layout_width="wrap_content"
        android:layout_height="90dp"
        android:text="5" />
    <androidx.appcompat.widget.AppCompatButton
        android:id="@+id/button_6"
        style="@style/Button_Style"
        android:layout_width="wrap_content"

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137         android:layout_height="90dp"
138         android:onClick="playClick"
139         android:text="-"
140         android:background="@drawable/shapefororange"
141         android:textColor="@color/white" />
142     </TableRow>
143     <TableRow>
144         <androidx.appcompat.widget.AppCompatButton
145             android:id="@+id/button_1"
146             style="@style/Button_Style"
147             android:onClick="playClick"
148             android:layout_width="wrap_content"
149             android:layout_height="90dp"
150             android:text="1" />
151         <androidx.appcompat.widget.AppCompatButton
152             android:id="@+id/button_2"
153             style="@style/Button_Style"
154             android:onClick="playClick"
155             android:layout_width="wrap_content"
156             android:layout_height="90dp"
157             android:text="2" />
158         <androidx.appcompat.widget.AppCompatButton
159             android:id="@+id/button_3"
160             style="@style/Button_Style"
161             android:onClick="playClick"
162             android:layout_width="wrap_content"
163             android:layout_height="90dp"
164             android:text="3" />
165         <androidx.appcompat.widget.AppCompatButton
166             android:id="@+id/button_addition"
167             style="@style/Button_Style"
168             android:layout_width="wrap_content"
169             android:layout_height="90dp"
170             android:onClick="playClick"
171             android:text="+"
172             android:background="@drawable/shapefororange"
173             android:textColor="@color/white" />
174     </TableRow>
175     <TableRow>
176         <androidx.appcompat.widget.AppCompatButton
177             android:id="@+id/button_percent"

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174     </TableRow>
175     <TableRow>
176         <androidx.appcompat.widget.AppCompatButton
177             android:id="@+id/button_percent"
178             style="@style/Button_Style"
179             android:layout_width="wrap_content"
180             android:onClick="playClick"
181             android:layout_height="90dp"
182             android:text="%" />
183         <androidx.appcompat.widget.AppCompatButton
184             android:id="@+id/button_0"
185             style="@style/Button_Style"
186             android:layout_width="wrap_content"
187             android:layout_height="90dp"
188             android:onClick="playClick"
189             android:text="0" />
190         <androidx.appcompat.widget.AppCompatButton
191             android:id="@+id/button_dot"
192             style="@style/Button_Style"
193             android:layout_width="wrap_content"
194             android:layout_height="90dp"
195             android:onClick="playClick"
196             android:text="." />
197         <androidx.appcompat.widget.AppCompatButton
198             android:id="@+id/button_equals"
199             style="@style/Button_Style"
200             android:layout_width="wrap_content"
201             android:layout_height="90dp"
202             android:onClick="playClick"
203             android:background="@drawable/shapefororange"
204             android:text="="
205             android:textSize="50dp"
206             android:textColor="@color/white" />
207     </TableRow>
208 </TableLayout>
209 </LinearLayout>
210

```

main_activity

```
}
binding.buttonBracketRight.setOnClickListener {
    addToInputText( value: ")")
}
binding.button0.setOnClickListener {
    addToInputText( value: "0")
}
binding.button1.setOnClickListener {
    addToInputText( value: "1")
}
binding.button2.setOnClickListener {
    addToInputText( value: "2")
}
binding.button3.setOnClickListener {
    addToInputText( value: "3")
}
binding.button4.setOnClickListener {
    addToInputText( value: "4")
}
binding.button5.setOnClickListener {
    addToInputText( value: "5")
}
binding.button6.setOnClickListener {
    addToInputText( value: "6")
}
binding.button7.setOnClickListener {
    addToInputText( value: "7")
}
binding.button8.setOnClickListener {
    addToInputText( value: "8")
}
binding.button9.setOnClickListener {
    addToInputText( value: "9")
}
binding.buttonDot.setOnClickListener {
    addToInputText( value: ".")
}
binding.buttonDivision.setOnClickListener {
    addToInputText( value: ":")
}
binding.buttonMultiply.setOnClickListener {
    addToInputText( value: "x")
}
```

```

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        addToInputText( value: "9")
    }
    binding.buttonDot.setOnClickListener {
        addToInputText( value: "." )
    }
    binding.buttonDivision.setOnClickListener {
        addToInputText( value: "/" )
    }
    binding.buttonMultiply.setOnClickListener {
        addToInputText( value: "x" )
    }
    binding.buttonSubtraction.setOnClickListener {
        addToInputText( value: "-" )
    }
    binding.buttonAddition.setOnClickListener {
        addToInputText( value: "+" )
    }
    binding.buttonEquals.setOnClickListener {
        showResult()
    }
    binding.buttonPercent.setOnClickListener {
        addToInputText( value: "%" )
    }
}

private fun addToInputText(value: String) {
    binding.input.append(value)
}

private fun getInputExpression(): String {
    return binding.input.text.toString()
}

private fun showResult() {
    try {
        val expression = getInputExpression().replace( oldValue: "%", newValue: "/100")
        val result = ExpressionBuilder(expression).build().evaluate()
        binding.output.text = DecimalFormat( pattern: "0.#####" ).format(result).toString()
    } catch (e: Exception) {
        binding.output.text = "Ошибка"
        binding.output.setTextColor(ContextCompat.getColor( context: this, R.color.red ))
    }
}

```

Shape XML

```

1 <?xml version="1.0" encoding="utf-8"?>
2 <shape xmlns:android="http://schemas.android.com/apk/res/android">
3     <corners android:radius="150dp"/>
4     <gradient android:startColor="#202020" android:endColor="#202020"/>
5 </shape>

```

Activity Splash Screen

```

1 <?xml version="1.0" encoding="utf-8"?>
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     android:layout_width="match_parent"
4     android:layout_height="match_parent">
5     <TextView
6         android:layout_width="match_parent"
7         android:layout_height="match_parent"
8         android:text="CALCULATOR IS LOADING..."
9         android:gravity="center"
10        android:textSize="52sp"
11        android:textStyle="bold">
12    </TextView>
13 </androidx.constraintlayout.widget.ConstraintLayout>

```

Android Manifest

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/ex9"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Ex9"
        tools:targetApi="31">
        <activity
            android:name=".SplashScreen"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

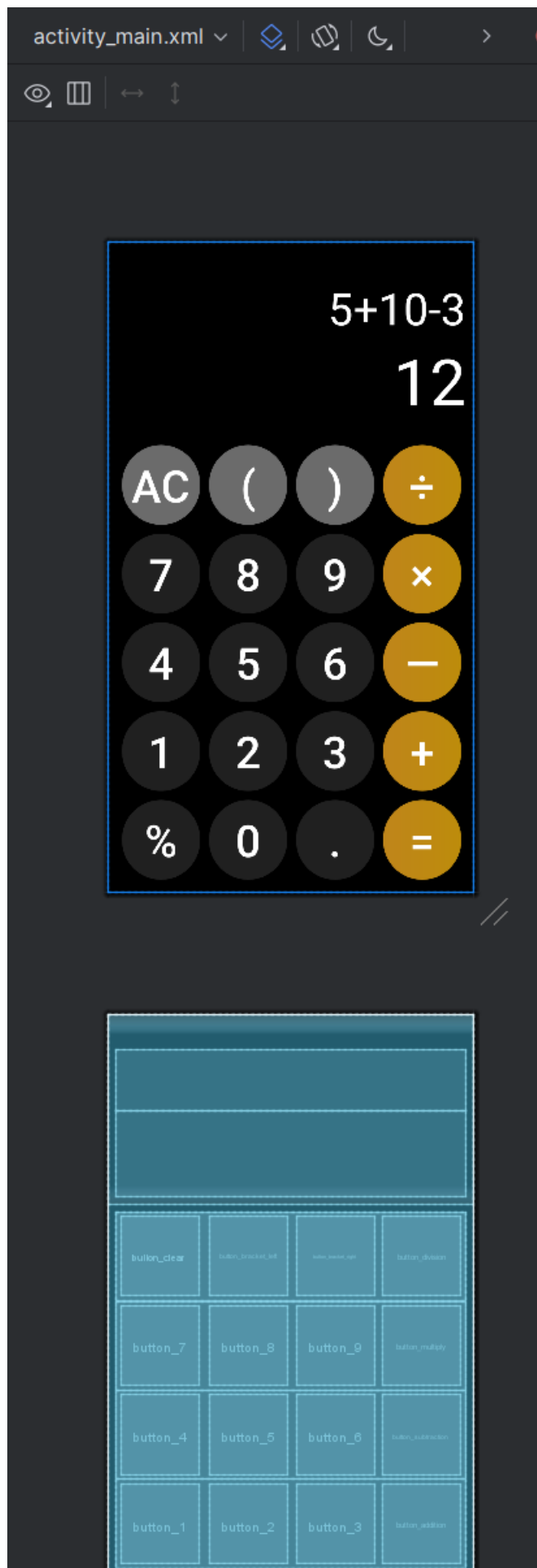
</manifest>

```


SplashScreen

```
import android.content.Intent
import android.os.Bundle
import android.os.Handler
import android.os.Looper
import androidx.appcompat.app.AppCompatActivity

class SplashScreen : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_splash_screen)
        Handler(Looper.getMainLooper()).postDelayed({
            startActivity(Intent(packageContext, MainActivity::class.java))
        }, delayMillis: 2000)
    }
}
```



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**CALCULATOR IS
LOADING...**

Там показано, что есть куча ошибок в коде, хотя калькулятор нормально работает. Без понятия почему, но меня вполне всё устраивает.