Calculator practice 9 Solunin

Заранее прописываем binding in gradle

```
buildFeatures{
    viewBinding = true
}
```

Colors.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFFF</color>
    <color name="red">#FF009D</color>
    <color name="pink">#F0DDE2</color>
    <color name="pink2">#FF00C3</color>
    <color name="pinky">#E7A1D6</color>
    <style name="Button_Style" parent="Widget.AppCompat.Button.Colored">
        <item name="android:background">@color/white</item>
        <item name="android:textSize">24sp</item>
        <item name="android:textColor">@color/black</item>
        <item name="android:gravity">center</item>
    </style>
    </resources>
```

MainActivity

```kotlin
package com.example.myapplication9

import android.icu.text.DecimalFormat
import android.os.Bundle
import androidx.activity.enableEdgeToEdge
import androidx.appcompat.app.AppCompatActivity
import androidx.core.content.ContextCompat
import androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat
import com.example.myapplication9.databinding.ActivityMainBinding
import net.objecthunter.exp4j.ExpressionBuilder

class MainActivity : AppCompatActivity() {
lateinit var binding: ActivityMainBinding
    private fun addToInputText(value: String) {
        binding.input.append(value)
    }

    private fun getInputExpression(): String {
        return binding.input.text.toString()
    }
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        binding = ActivityMainBinding.inflate(layoutInflater)
        setContentView(binding.root)
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) {
v, insets ->
            val systemBars =
insets.getInsets(WindowInsetsCompat.Type.systemBars())
            v.setPadding(systemBars.left, systemBars.top, systemBars.right,
systemBars.bottom)
            insets
        }
        binding.buttonClear.setOnClickListener {
```

```kotlin
            binding.input.text = ""
            binding.output.text = ""
        }
        binding.buttonBracketLeft.setOnClickListener {
            addToInputText("(")
        }
        binding.buttonBracketRight.setOnClickListener { // Исправлено
            addToInputText(")")
        }
        binding.button0.setOnClickListener {
            addToInputText("0")
        }
        binding.button1.setOnClickListener {
            addToInputText("1")
        }
        binding.button2.setOnClickListener {
            addToInputText("2")
        }
        binding.button3.setOnClickListener {
            addToInputText("3")
        }
        binding.button4.setOnClickListener {
            addToInputText("4")
        }
        binding.button5.setOnClickListener {
            addToInputText("5")
        }
        binding.button6.setOnClickListener {
            addToInputText("6")
        }
        binding.button7.setOnClickListener {
            addToInputText("7")
        }
        binding.button8.setOnClickListener {
            addToInputText("8")
        }
        binding.button9.setOnClickListener {
            addToInputText("9")
        }
        binding.buttonDot.setOnClickListener {
            addToInputText(".")
        }
        binding.buttonDivision.setOnClickListener {
            addToInputText("/")
        }
        binding.buttonMultiply.setOnClickListener {
            addToInputText("*")
        }
        binding.buttonSubtraction.setOnClickListener {
            addToInputText("-")
        }
        binding.buttonAddition.setOnClickListener {
            addToInputText("+")
        }
        binding.buttonEquals.setOnClickListener {
            showResult()
        }
        binding.buttonPercent.setOnClickListener {
            addToInputText("%")
        }
    }
    private fun showResult() {
        try {
            val expression = getInputExpression().replace("%", "/100")
```

```
            val result = ExpressionBuilder(expression).build().evaluate()
            binding.output.text =
                DecimalFormat("0.######").format(result).toString()
            binding.output.setTextColor(
                ContextCompat.getColor(this,
                R.color.pinky))
        } catch (e: Exception) {
            binding.output.text = "Ошибка"
            binding.output.setTextColor(ContextCompat.getColor(this,
                R.color.red))
        }
    }
}
```

splash_screen.kt

```
package com.example.myapplication9

import android.content.Intent
import android.os.Bundle
import android.os.Looper
import androidx.activity.enableEdgeToEdge
import androidx.appcompat.app.AppCompatActivity
import androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat

class splash_screen : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity_splash_screen)
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) {
v, insets ->
            val systemBars =
insets.getInsets(WindowInsetsCompat.Type.systemBars())
            v.setPadding(systemBars.left, systemBars.top, systemBars.right,
systemBars.bottom)
            insets
        }
        android.os.Handler(Looper.getMainLooper()).postDelayed({
            val intent = Intent(this,MainActivity::class.java)
            startActivity(intent)
        },2000)


    }
}
```

activity_splashScreen

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".splash_screen"
    android:orientation="vertical">

    <ImageView
        android:id="@+id/image1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background="@drawable/calculatorcat"
```

```
                tools:ignore="MissingConstraints" />
    <TextView
        android:layout_width="match_parent"
        android:layout_height="100dp"
        tools:ignore="MissingConstraints"
        android:text="Калькулятор"
        android:textSize="65sp"
        android:textColor="@color/white"/>

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

Activity_main

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="1"
        android:background="@color/pink"
        android:gravity="bottom"
        android:orientation="vertical"
        android:padding="30dp">
        <TextView
            android:id="@+id/input"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:gravity="end"
            android:textColor="@color/black"
            android:textSize="30sp"
            tools:text="1234567890" />
        <TextView
            android:id="@+id/output"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:gravity="end"
            android:textColor="@color/pink2"
            android:textSize="50sp"
            tools:text="1234567890" />
    </LinearLayout>
    <TableLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:stretchColumns="*">
        <TableRow>
            <androidx.appcompat.widget.AppCompatButton
                android:id="@+id/button_clear"
                style="@style/Button_Style"
                android:layout_width="wrap_content"
                android:layout_height="90dp"
                android:text="AC"
                android:textColor="@color/red" />
            <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:textColor="@color/pinky" />
```

```xml
        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_bracket_right"
            style="@style/Button_Style"
            android:layout_width="wrap_content"
            android:layout_height="90dp"
            android:text=")"
            android:textColor="@color/pinky" />
        <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:textColor="@color/pinky" />
    </TableRow>
    <TableRow>
        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_7"
            style="@style/Button_Style"
            android:layout_width="wrap_content"
            android:layout_height="90dp"
            android:text="7"
            />
        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_8"
            style="@style/Button_Style"
            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: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:layout_width="wrap_content"
            android:layout_height="90dp"
            android:text="×"
            android:textColor="@color/pinky" />
    </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:text="4" />
        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_5"
            style="@style/Button_Style"
            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"
            android:layout_height="90dp"
            android:text="6" />
        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_subtraction"
```

```xml
                    style="@style/Button_Style"
                    android:layout_width="wrap_content"
                    android:layout_height="90dp"
                    android:text="-"
                    android:textColor="@color/pinky" />
        </TableRow>
        <TableRow>
            <androidx.appcompat.widget.AppCompatButton
                    android:id="@+id/button_1"
                    style="@style/Button_Style"
                    android:layout_width="wrap_content"
                    android:layout_height="90dp"
                    android:text="1" />
            <androidx.appcompat.widget.AppCompatButton
                    android:id="@+id/button_2"
                    style="@style/Button_Style"
                    android:layout_width="wrap_content"
                    android:layout_height="90dp"
                    android:text="2" />
            <androidx.appcompat.widget.AppCompatButton
                    android:id="@+id/button_3"
                    style="@style/Button_Style"
                    android:layout_width="wrap_content"
                    android:layout_height="90dp"
                    android:text="3" />
            <androidx.appcompat.widget.AppCompatButton
                    android:id="@+id/button_addition"
                    style="@style/Button_Style"
                    android:layout_width="wrap_content"
                    android:layout_height="90dp"
                    android:text="+"
                    android:textColor="@color/pinky" />
        </TableRow>
        <TableRow>
            <androidx.appcompat.widget.AppCompatButton
                    android:id="@+id/button_percent"
                    style="@style/Button_Style"
                    android:layout_width="wrap_content"
                    android:layout_height="90dp"
                    android:text="%" />
            <androidx.appcompat.widget.AppCompatButton
                    android:id="@+id/button_0"
                    style="@style/Button_Style"
                    android:layout_width="wrap_content"
                    android:layout_height="90dp"
                    android:text="0" />
            <androidx.appcompat.widget.AppCompatButton
                    android:id="@+id/button_dot"
                    style="@style/Button_Style"
                    android:layout_width="wrap_content"
                    android:layout_height="90dp"
                    android:text="." />
            <androidx.appcompat.widget.AppCompatButton
                    android:id="@+id/button_equals"
                    style="@style/Button_Style"
                    android:layout_width="wrap_content"
                    android:layout_height="90dp"
                    android:background="@color/pinky"
                    android:text="="
                    android:textColor="@color/white" />
        </TableRow>
    </TableLayout>
</LinearLayout>
```
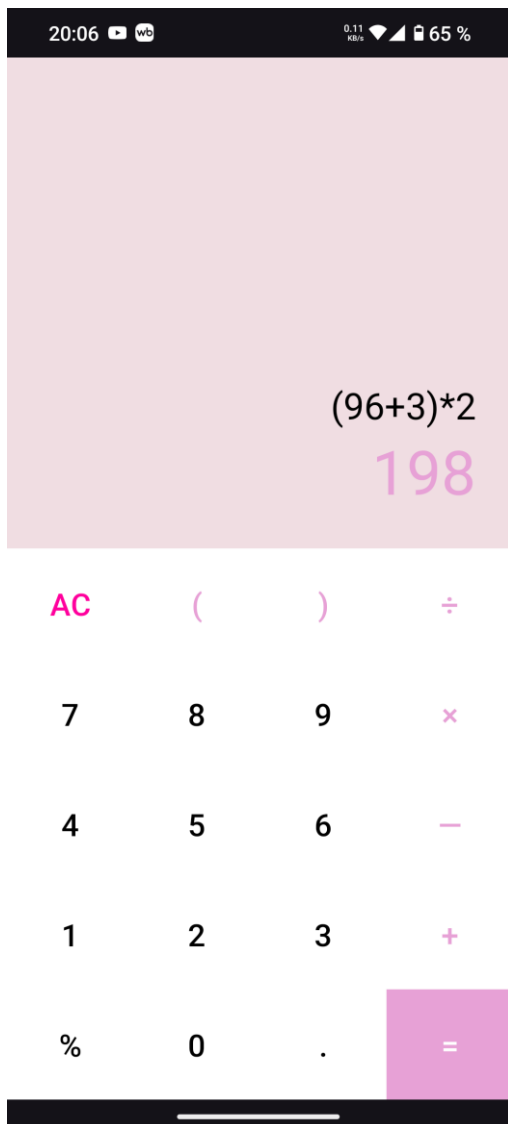
Result

Все работает, теперь сделаем дополнительную ветку в гитхабе