

## MainActivity.kt

```
package com.example.myapplication

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.myapplication.databinding.ActivityMainBinding
import net.objecthunter.exp4j.ExpressionBuilder
import java.text.DecimalFormat

class MainActivity : AppCompatActivity() {
    private lateinit var binding: ActivityMainBinding
    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{
            binding.input.text = " "
            binding.output.text = " "
        }
        binding.buttonBracketLeft.setOnClickListener {
            addToInputText("(")
        }
        binding.buttonBracketLeft.setOnClickListener {
            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 {
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        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("%")
    }
}
// Функция для добавления текста к полю ввода
private fun addToInputText(value: String) {
    binding.input.append(value) // Добавляем переданное значение в конец
поля ввода
}
// Функция для получения строки ввода
private fun getInputExpression(): String {
    return binding.input.text.toString() // Возвращаем текст из поля ввода
}
// Функция для показа результата вычислений
private fun showResult() {
    try {
        val expression = getInputExpression().replace("%", "/100")
        //Заменяем % на соответствующее значение для деления
        val result = ExpressionBuilder(expression).build().evaluate()
        binding.output.text =
            DecimalFormat("0.#####").format(result).toString()
        binding.output.setTextColor(
            ContextCompat.getColor(this,
                R.color.neon_green)
        )
    } catch (e: Exception) {
        binding.output.text = "Ошибка"
        binding.output.setTextColor(ContextCompat.getColor(this,
            R.color.red))
    }
}
}}

```

## activity\_main.xml

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<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:background="@color/white"

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android:orientation="vertical"
tools:context=".MainActivity">
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="0dp"
    android:layout_weight="1"
    android:background="@color/black"
    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/white"
        android:textSize="30sp"
        tools:text="5+10-3" />
    <TextView
        android:id="@+id/output"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="end"
        android:textColor="@color/neon_green"
        android:textSize="50sp"
        tools:text="12" />
</LinearLayout>
<TableLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:stretchColumns="*">
    <TableRow android:background="@color/white">
        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_clear"
            style="@style/Button_Style"
            android:layout_width="wrap_content"
            android:layout_height="90dp"
            android:text="Del"
            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/orange" />
        <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/orange" />
        <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/orange" />
    </TableRow>
    <TableRow android:background="@color/white">
        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_7"

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        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="x"
    android:textColor="@color/orange" />
</TableRow>
<TableRow android:background="@color/white">
    <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"
        style="@style/Button_Style"
        android:layout_width="wrap_content"
        android:layout_height="90dp"
        android:text="-"
        android:textColor="@color/orange" />
</TableRow>
<TableRow android:background="@color/white">
    <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" />

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        <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/orange" />
    </TableRow>
    <TableRow android:background="@color/white">
        <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/orange"
            android:text="="
            android:textColor="@color/white" />
    </TableRow>
</TableLayout>
</LinearLayout>

```

## colors.xml

```

<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="purple_200">#FFBB86FC</color>
    <color name="purple_500">#FF6200EE</color>
    <color name="purple_700">#FF3700B3</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFFF</color>
    <color name="red">#FF3131</color>
    <color name="pink">#FFC0CB</color>
    <color name="orange">#FFA500</color>
    <color name="neon_green">#39FF14</color>
    <style name="Button_Style" parent="Widget.AppCompat.Button.Colored">
        <item name="android:background">"@color/white"</item>
    </style>

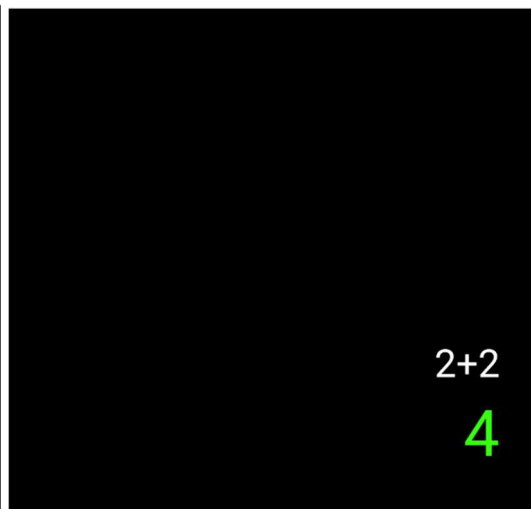
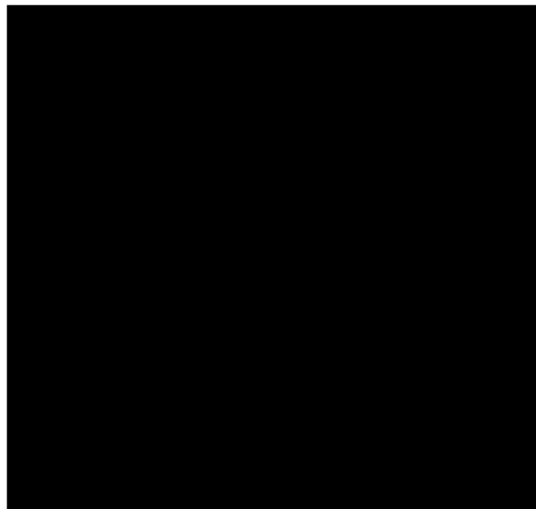
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<item name="android:textSize">24sp</item>
<item name="android:textColor">@color/black</item>
<item name="android:gravity">center</item>
</style>
</resources>
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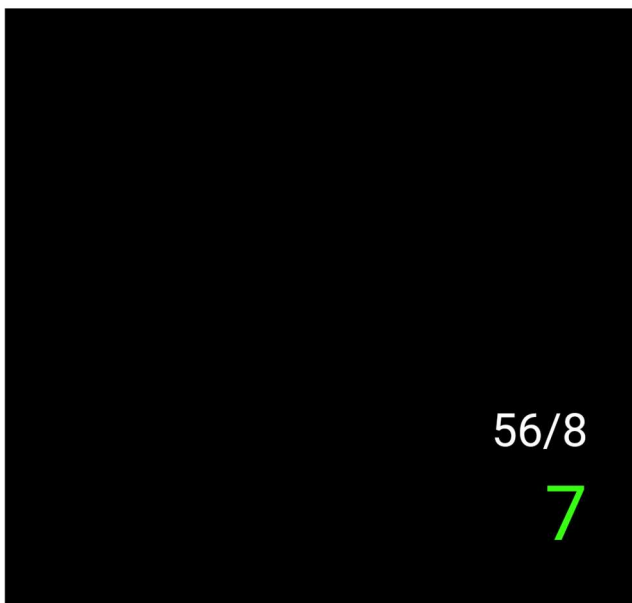
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