```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   xmlns:app="http://schemas.android.com/apk/res-auto"
   android:id="@+id/main"
   android:layout_width="match_parent"
   android:layout_height="match_parent"
   android:background="@color/black"
   <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"
        <TextView
            android: layout width="match parent"
            android:layout height="wrap content"
            android:gravity="end"
   </LinearLayout>
    <TableLayout
        android:layout width="match parent"
        android:layout height="wrap content"
        android:stretchColumns="*">
        <TableRow>
            <androidx.appcompat.widget.AppCompatButton</pre>
                android:id="@+id/button clear"
                style="@style/Button Style"
                android:layout_width="wrap_content"
android:layout_height="90dp"
            <androidx.appcompat.widget.AppCompatButton</pre>
                style="@style/Button_Style"
                android:layout_height="90dp"
            <androidx.appcompat.widget.AppCompatButton</pre>
                style="@style/Button_Style"
                android:layout_width="wrap_content"
                android:layout_height="90dp"
                android:text=")"
            <androidx.appcompat.widget.AppCompatButton</pre>
```

```
style="@style/Button Style"
        android:layout_width="wrap_content"
        android:layout_height="90dp"
        android:text="÷"
        android:textColor="@color/orange" />
</TableRow>
<TableRow>
    <androidx.appcompat.widget.AppCompatButton</pre>
        style="@style/Button Style"
        android:layout_width="wrap_content"
        android:layout_height="90dp"
    <androidx.appcompat.widget.AppCompatButton</pre>
        style="@style/Button_Style"
        android:layout width="wrap content"
        android:layout_height="90dp"
    <androidx.appcompat.widget.AppCompatButton</pre>
        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</pre>
        android:id="@+id/button multiply"
        style="@style/Button Style"
        android:layout width="wrap content"
        android:layout height="90dp"
        android:text="X"
</TableRow>
<TableRow>
    <androidx.appcompat.widget.AppCompatButton</pre>
        android:id="@+id/button 4"
        style="@style/Button Style"
        android:layout width="wrap content"
        android:layout height="90dp"
    <androidx.appcompat.widget.AppCompatButton</pre>
        android:id="@+id/button 5"
        style="@style/Button Style"
        android:layout width="wrap content"
        android:layout height="90dp"
    <androidx.appcompat.widget.AppCompatButton</pre>
        style="@style/Button Style"
        android:layout_height="90dp"
    <androidx.appcompat.widget.AppCompatButton</pre>
        style="@style/Button_Style"
        android:layout_width="wrap_content"
        android:layout_height="90dp"
        android:textColor="@color/orange" />
</TableRow>
<TableRow>
    <androidx.appcompat.widget.AppCompatButton</pre>
        style="@style/Button_Style"
```

```
android:layout width="wrap content"
                android:layout_height="90dp"
            <androidx.appcompat.widget.AppCompatButton</pre>
                style="@style/Button_Style"
                android:layout_width="wrap_content"
            <androidx.appcompat.widget.AppCompatButton</pre>
                style="@style/Button Style"
                android:layout_width="wrap_content"
                android:layout_height="90dp"
            <androidx.appcompat.widget.AppCompatButton</pre>
                style="@style/Button Style"
                android:layout width="wrap content"
                android:layout_height="90dp"
                android:text="+"
                android:textColor="@color/orange" />
        </TableRow>
        <TableRow>
            <androidx.appcompat.widget.AppCompatButton</pre>
                android:id="@+id/button percent"
                style="@style/Button Style"
                android:layout width="wrap content"
                android:layout height="90dp"
                android:text="%" />
            <androidx.appcompat.widget.AppCompatButton</pre>
                android:id="@+id/button 0"
                style="@style/Button Style"
                android:layout width="wrap content"
                android:layout height="90dp"
            <androidx.appcompat.widget.AppCompatButton</pre>
                style="@style/Button Style"
                android:layout width="wrap content"
                android:layout height="90dp"
                android:text="." />
            <androidx.appcompat.widget.AppCompatButton</pre>
                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>
Color.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 700">#FF018786</color>
```

```
<color name="black">#FF000000</color>
    <color name="white">#FFFFFFF</color>
    <color name="red">#FF3131</color>
    <color name="pink">#FFC0CB</color>
    <color name="orange">#FFA500</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>
MAINACTIVITYKT
package com.example.myapplication
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.myapplication.databinding.ActivityMainBinding
import net.objecthunter.exp4j.ExpressionBuilder
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("(")
            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(".")
        addToInputText("÷")
    binding.buttonMultiply.setOnClickListener {
        addToInputText("x")
    binding.buttonSubtraction.setOnClickListener {
        addToInputText("-")
        addToInputText("+")
    binding.buttonEquals.setOnClickListener {
        showResult()
   binding.buttonPercent.setOnClickListener {
        addToInputText("%")
private fun addToInputText(s: String) {
    binding.input.append(s)
    return binding.input.text.toString()
    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,
    } catch (e: Exception) {
        binding.output.text = "Ошибка"
        binding.output.setTextColor(ContextCompat.getColor(this,
            R.color.red))
```

```
BUILD.GRADEL
plugins {
    alias(libs.plugins.android.application)
    alias(libs.plugins.kotlin.android)
android {
    namespace = "com.example.myapplication"
    defaultConfig {
        applicationId = "com.example.myapplication"
        targetSdk = 34
    buildTypes {
            proguardFiles(
                getDefaultProguardFile("proguard-android-optimize.txt"),
        }
    compileOptions {
        sourceCompatibility = JavaVersion.VERSION 1 8
        targetCompatibility = JavaVersion. VERSION 1 8
    buildFeatures{
dependencies {
    implementation (libs.exp4j)
    implementation(libs.androidx.appcompat)
```