

Colors.xml

```

</> colors.xml × </> activity_main.xml
1  <?xml version="1.0" encoding="utf-8"?>
2  <resources>
3      <color name="purple_200">#FFBB86FC</color>
4      <color name="purple_500">#FF6200EE</color>
5      <color name="purple_700">#FF3700B3</color>
6      <color name="teal_200">#FF03DAC5</color>
7      <color name="teal_700">#FF018786</color>
8      <color name="black">#FF000000</color>
9      <color name="white">#FFFFFFFF</color>
10     <color name="red">#FF3131</color>
11     <color name="pink">#FFC0CB</color>
12     <color name="orange">#FFA500</color>
13     <color name="neon_green">#39FF14</color>
14     <color name="semiblack">#202020</color>
15     <color name="gray">#6B6B6B</color>
16     <style name="Button_Style" parent="Widget.AppCompat.Button.Colored">
17         <item name="android:textSize">50sp</item>
18         <item name="android:textColor">@color/white</item>
19         <item name="android:gravity">center</item>
20         <item name="android:background">@drawable/shape</item>
21         <item name="android:layout_margin">5dp</item>
22     </style>
23 </resources>
24

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Activity_Main.xml

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</> colors.xml </> activity_main.xml ×
1  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
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="*">

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41 <TableRow>
42 <androidx.appcompat.widget.AppCompatButton
43     android:id="@+id/button_clear"
44     style="@style/Button_Style"
45     android:layout_width="wrap_content"
46     android:layout_height="90dp"
47     android:text="AC"
48     android:onClick="playErase"
49     android:textColor="@color/white"
50     android:background="@drawable/shapefortop" />
51 <androidx.appcompat.widget.AppCompatButton
52     android:id="@+id/button_bracket_left"
53     style="@style/Button_Style"
54     android:layout_width="wrap_content"
55     android:layout_height="90dp"
56     android:text="("
57     android:onClick="playClick"
58     android:background="@drawable/shapefortop"
59     android:textColor="@color/white" />
60 <androidx.appcompat.widget.AppCompatButton
61     android:id="@+id/button_bracket_right"
62     style="@style/Button_Style"
63     android:layout_width="wrap_content"
64     android:background="@drawable/shapefortop"
65     android:layout_height="90dp"
66     android:text=")"
67     android:onClick="playClick"
68     android:textColor="@color/white" />
69 <androidx.appcompat.widget.AppCompatButton
70     android:id="@+id/button_division"
71     style="@style/Button_Style"
72     android:layout_width="wrap_content"
73     android:layout_height="90dp"
74     android:text="/"
75     android:onClick="playClick"
76     android:background="@drawable/shapefororange"

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77     android:textColor="@color/white" />
78 </TableRow>
79 <TableRow>
80 <androidx.appcompat.widget.AppCompatButton
81     android:id="@+id/button_7"
82     style="@style/Button_Style"
83     android:onClick="playClick"
84     android:layout_width="wrap_content"
85     android:layout_height="90dp"
86     android:text="7" />
87 <androidx.appcompat.widget.AppCompatButton
88     android:id="@+id/button_8"
89     style="@style/Button_Style"
90     android:onClick="playClick"
91     android:layout_width="wrap_content"
92     android:layout_height="90dp"
93     android:text="8" />
94 <androidx.appcompat.widget.AppCompatButton
95     android:id="@+id/button_9"
96     style="@style/Button_Style"
97     android:onClick="playClick"
98     android:layout_width="wrap_content"
99     android:layout_height="90dp"
100    android:text="9" />
101 <androidx.appcompat.widget.AppCompatButton
102     android:id="@+id/button_multiply"
103     style="@style/Button_Style"
104     android:onClick="playClick"
105     android:layout_width="wrap_content"
106     android:layout_height="90dp"
107     android:text="*"
108     android:background="@drawable/shapefororange"
109     android:textColor="@color/white" />
110 </TableRow>
111 <TableRow>
112 <androidx.appcompat.widget.AppCompatButton

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113     android:id="@+id/button_4"
114     style="@style/Button_Style"
115     android:layout_width="wrap_content"
116     android:layout_height="90dp"
117     android:onClick="playClick"
118     android:text="4" />
119 <androidx.appcompat.widget.AppCompatButton
120     android:id="@+id/button_5"
121     style="@style/Button_Style"
122     android:onClick="playClick"
123     android:layout_width="wrap_content"
124     android:layout_height="90dp"
125     android:text="5" />
126 <androidx.appcompat.widget.AppCompatButton
127     android:id="@+id/button_6"
128     style="@style/Button_Style"
129     android:layout_width="wrap_content"
130     android:layout_height="90dp"
131     android:onClick="playClick"
132     android:text="6" />
133 <androidx.appcompat.widget.AppCompatButton
134     android:id="@+id/button_subtraction"
135     style="@style/Button_Style"
136     android:layout_width="wrap_content"
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"

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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"
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"

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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

```

MainActivity.kt

```

import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.media.MediaPlayer
import android.widget.Button
import android.widget.EditText
import android.widget.Toast

class MainActivity : AppCompatActivity() {
    private lateinit var binding: ActivityMainBinding

    override fun onCreate(savedInstanceState: Bundle?) {
        binding = ActivityMainBinding.inflate(layoutInflater)
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(binding.root)
        var sound = MediaPlayer()
        binding.buttonClear.setOnClickListener {
            binding.input.text = ""
            binding.output.text = ""
        }
        binding.buttonBracketLeft.setOnClickListener {
            sound.setAudioStreamType(AudioManager.STREAM_MUSIC)
            if (!sound.isPlaying) {
                try {
                    sound.setDataSource(context, Uri.parse("android.resource://" + this.packageName + "/" + R.raw.click))
                    sound.prepareAsync()
                    sound.start()
                } catch (e: IOException) {
                    e.printStackTrace()
                }
            } else {
                try {
                    sound.stop()
                    sound.release()
                    sound = MediaPlayer()
                } catch (e: IOException) {
                    e.printStackTrace()
                }
            }
            addToInputText(binding.value, "(")
        }
        binding.buttonBracketRight.setOnClickListener {
            addToInputText(binding.value, ")")
        }
        binding.button0.setOnClickListener {

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```

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")
}

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91     }
92     binding.buttonSubtraction.setOnClickListener {
93         addToInputText( value: "-")
94     }
95     binding.buttonAddition.setOnClickListener {
96         addToInputText( value: "+")
97     }
98     binding.buttonEquals.setOnClickListener {
99         showResult()
100     }
101     binding.buttonPercent.setOnClickListener {
102         addToInputText( value: "%")
103     }
104 }
105
106 private fun addToInputText(value: String) {
107     binding.input.append(value)
108 }
109
110 private fun getInputExpression(): String {
111     return binding.input.text.toString()
112 }
113
114 private fun showResult() {
115     try {
116         val expression = getInputExpression().replace( oldValue: "%", newValue: "/100")
117         val result = ExpressionBuilder(expression).build().evaluate()
118         binding.output.text = DecimalFormat( pattern: "0.#####").format(result).toString()
119     } catch (e: Exception) {
120         binding.output.text = "Ошибка"
121         binding.output.setTextColor(ContextCompat.getColor( context: this, R.color.red))
122     }
123 }
124 //

```

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>
```

SplashScreen.kt

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

AndroidManifest.xml

```
<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>
```

Activity_splash_screen.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:text="CALCULATOR IS LOADING..."
        android:gravity="center"
        android:textSize="52sp"
        android:textStyle="bold">
    </TextView>
</androidx.constraintlayout.widget.ConstraintLayout>
```

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