

1.код mainactivity.xml:

```

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="0dp"
    android:layout_weight="1"
    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:id="@+id/output"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="end"
        android:textColor="@color/neon_green"
        android:textSize="50sp" />
</LinearLayout>

<TableLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:stretchColumns="*>

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39      <TableRow>
40
41          <androidx.appcompat.widget.AppCompatButton
42              android:id="@+id/button_clear"
43              style="@style/Button_Style"
44              android:layout_width="wrap_content"
45              android:layout_height="90dp"
46              android:text="Del"
47              android:textColor="@color/red"
48              tools:ignore="HardcodedText,VisuallIntButtonSize" />
49
50          <androidx.appcompat.widget.AppCompatButton
51              android:id="@+id/button_bracket_left"
52              style="@style/Button_Style"
53              android:layout_width="wrap_content"
54              android:layout_height="90dp"
55              android:text="("
56              android:textColor="@color/red"
57              tools:ignore="HardcodedText,VisuallIntButtonSize" />
58
59          <androidx.appcompat.widget.AppCompatButton
60              android:id="@+id/button_bracket_right"
61              style="@style/Button_Style"
62              android:layout_width="wrap_content"
63              android:layout_height="90dp"
64              android:text=")"
65              android:textColor="@color/red"
66              tools:ignore="HardcodedText,VisuallIntButtonSize" />
67
68          <androidx.appcompat.widget.AppCompatButton
69              android:id="@+id/button_division"
70              style="@style/Button_Style"
71              android:layout_width="wrap_content"
72              android:layout_height="90dp"
73              android:text="/"
74              android:textColor="@color/red"
75              tools:ignore="HardcodedText,VisuallIntButtonSize" />
76
77      </TableRow>

```

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79 <TableRow>
80
81     <androidx.appcompat.widget.AppCompatButton
82         android:id="@+id/button_7"
83         style="@style/Button_Style"
84         android:layout_width="wrap_content"
85         android:layout_height="90dp"
86         android:text="7"
87         tools:ignore="HardcodedText,VisuallintButtonSize"/>
88
89     <androidx.appcompat.widget.AppCompatButton
90         android:id="@+id/button_8"
91         style="@style/Button_Style"
92         android:layout_width="wrap_content"
93         android:layout_height="90dp"
94         android:text="8"
95         tools:ignore="HardcodedText,VisuallintButtonSize"/>
96
97     <androidx.appcompat.widget.AppCompatButton
98         android:id="@+id/button_9"
99         style="@style/Button_Style"
100        android:layout_width="wrap_content"
101        android:layout_height="90dp"
102        android:text="9"
103        tools:ignore="HardcodedText,VisuallintButtonSize"/>
104
105     <androidx.appcompat.widget.AppCompatButton
106         android:id="@+id/button_multiply"
107         style="@style/Button_Style"
108         android:layout_width="wrap_content"
109         android:layout_height="90dp"
110         android:text="x"
111         android:textColor="#EF6C00"
112         tools:ignore="HardcodedText,VisuallintButtonSize" />
113
114 </TableRow>
115
116 <TableRow>
117
118     <androidx.appcompat.widget.AppCompatButton
119         android:id="@+id/button_4"
120         style="@style/Button_Style"
121         android:layout_width="wrap_content"
122         android:layout_height="90dp"
123         android:text="4"
124         tools:ignore="HardcodedText,VisuallintButtonSize"/>
125
126     <androidx.appcompat.widget.AppCompatButton
127         android:id="@+id/button_5"
128         style="@style/Button_Style"
129         android:layout_width="wrap_content"
130         android:layout_height="90dp"
131         android:text="5"
132         tools:ignore="HardcodedText,VisuallintButtonSize" />
133
134     <androidx.appcompat.widget.AppCompatButton
135         android:id="@+id/button_6"
136         style="@style/Button_Style"
137         android:layout width="wrao content"

```

```

169         tools:ignore="HardcodedText,VisuallintButtonSize" />
170
171         <androidx.appcompat.widget.AppCompatButton
172             android:id="@+id/button_3"
173             style="@style/Button_Style"
174             android:layout_width="wrap_content"
175             android:layout_height="90dp"
176             android:text="3"
177             tools:ignore="HardcodedText,VisuallintButtonSize" />
178
179         <androidx.appcompat.widget.AppCompatButton
180             android:id="@+id/button_addition"
181             style="@style/Button_Style"
182             android:layout_width="wrap_content"
183             android:layout_height="90dp"
184             android:text="+"
185             android:textColor="#EF6C00"
186             tools:ignore="HardcodedText,VisuallintButtonSize" />
187     </TableRow>
188
189     <TableRow>
190         <androidx.appcompat.widget.AppCompatButton
191             android:id="@+id/button_percent"
192             style="@style/Button_Style"
193             android:layout_width="wrap_content"
194             android:layout_height="90dp"
195             android:text="%"
196             tools:ignore="HardcodedText,VisuallintButtonSize" />
197
198         <androidx.appcompat.widget.AppCompatButton
199             android:id="@+id/button_0"
200             style="@style/Button_Style"
201             android:layout_width="wrap_content"
202             android:layout_height="90dp"
203             android:text="0"
204             tools:ignore="HardcodedText,VisuallintButtonSize"/>
205
206         <androidx.appcompat.widget.AppCompatButton
207             android:id="@+id/button_dot"
208             style="@style/Button_Style"
209             android:layout_height="90dp"
210             android:layout_width="wrap_content"
211             android:text="."
212             tools:ignore="HardcodedText,VisuallintButtonSize"/>
213
214         <androidx.appcompat.widget.AppCompatButton
215             android:id="@+id/button_equals"
216             style="@style/Button_Style"
217             android:layout_width="wrap_content"
218             android:layout_height="90dp"
219             android:background="@color/orange"
220             android:text="="
221             android:textColor="#616161"
222             tools:ignore="HardcodedText,VisuallintButtonSize" />
223
224     </TableRow>
225 </TableLayout>
226 </LinearLayout>

```

2.main activity

```
14 class MainActivity : AppCompatActivity() {
15     lateinit var binding: ActivityMainBinding
16     override fun onCreate(savedInstanceState: Bundle?) {
17         super.onCreate(savedInstanceState)
18         enableEdgeToEdge()
19         binding = ActivityMainBinding.inflate(layoutInflater)
20         setContentView(binding.root)
21         ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) { v, insets ->
22             val systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars())
23             v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom)
24             insets
25         }
26         binding.buttonClear.setOnClickListener {
27             binding.input.text = ""
28             binding.output.text = ""
29         }
30         binding.buttonBracketLeft.setOnClickListener {
31             addToInputText( value: "(")
32         }
33         binding.buttonBracketRight.setOnClickListener {
34             addToInputText( value: ")")
35         }
36         binding.button0.setOnClickListener {
37             addToInputText( value: "0")
38         }
39         binding.button1.setOnClickListener {
40             addToInputText( value: "1")
41         }
42         binding.button2.setOnClickListener {
43             addToInputText( value: "2")
44         }
45         binding.button3.setOnClickListener {
46             addToInputText( value: "3")
47         }
48         binding.button4.setOnClickListener {
49             addToInputText( value: "4")
50         }
51         binding.button5.setOnClickListener {
52             addToInputText( value: "5")
53         }
54         binding.button6.setOnClickListener {
55             addToInputText( value: "6")
56         }
57         binding.buttonPercent.setOnClickListener {
58             addToInputText( value: "%")
59         }
60     }
61     private fun showResult() {
62         try {
63             val expression = getInputExpression().replace( oldValue: "%", newValue: "/100")
64             val result = ExpressionBuilder(expression).build().evaluate()
65             binding.output.text =
66                 DecimalFormat( pattern: "0.#####").format(result).toString()
67             binding.output.setTextColor(ContextCompat.getColor( context: this, R.color.neon_green))
68         }
69         catch (e:Exception){
70             binding.output.text = "Ошибка"
71             binding.output.setTextColor(ContextCompat.getColor( context: this, R.color.red))
72         }
73     }
74     private fun addToInputText(value: String) {
75         binding.input.append(value)
76     }
77     private fun getInputExpression(): String {
78         return binding.input.text.toString()
79     }
80 }
```

3.приложение

