

```
MainActivity.kt x SplashScreen.kt </> activity_main.xml </> activity_splash_screen.xml </> colors.xml
1 package com.onlylose.ex9
2
3 > import ...
16
17 class MainActivity : AppCompatActivity() {
18     private lateinit var binding: ActivityMainBinding
19     override fun onCreate(savedInstanceState: Bundle?) {
20         binding = ActivityMainBinding.inflate(layoutInflater)
21         super.onCreate(savedInstanceState)
22         enableEdgeToEdge()
23         setContentView(binding.root)
24         var sound = MediaPlayer()
25         binding.buttonClear.setOnClickListener {
26             binding.input.text = " "
27             binding.output.text = " "
28         }
29         binding.buttonBracketLeft.setOnClickListener {
30             sound.setAudioStreamType(AudioManager.STREAM_MUSIC)
31             if (!sound.isPlaying) {
32                 try {
33                     sound.setDataSource(context this, Uri.parse("android.resource://" + this.packageName + "/" + R.raw.click))
34                     sound.prepareAsync()
35                     sound.start()
36                 } catch (e: IOException) {
37                     e.printStackTrace()
38                 }
39             } else {
40                 try {
41                     sound.stop()
42                     sound.release()
43                     sound = MediaPlayer()
44                 } catch (e: IOException) {
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```
MainActivity.kt x SplashScreen.kt </> activity_main.xml </> activity_splash_screen.xml </> colors.xml
17 class MainActivity : AppCompatActivity() {
19     override fun onCreate(savedInstanceState: Bundle?) {
69         addToInputText( value: "5")
70     }
71     binding.button6.setOnClickListener {
72         addToInputText( value: "6")
73     }
74     binding.button7.setOnClickListener {
75         addToInputText( value: "7")
76     }
77     binding.button8.setOnClickListener {
78         addToInputText( value: "8")
79     }
80     binding.button9.setOnClickListener {
81         addToInputText( value: "9")
82     }
83     binding.buttonDot.setOnClickListener {
84         addToInputText( value: ".")
85     }
86     binding.buttonDivision.setOnClickListener {
87         addToInputText( value: "÷")
88     }
89     binding.buttonMultiply.setOnClickListener {
90         addToInputText( value: "x")
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 = "0мм6ка"
121         binding.output.setTextColor(ContextCompat.getColor( context: this, R.color.red))
122     }
123 }
124
125 }
```

```
MainActivity.kt  </> activity_main.xml  x  </> activity_splash_screen.xml  </> colors.xml
1  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
2      xmlns:tools="http://schemas.android.com/tools"
3      android:id="@+id/main"
4      android:layout_width="match_parent"
5      android:layout_height="match_parent"
6      android:background="@color/black"
7      android:orientation="vertical"
8      tools:context=".MainActivity">
9      <LinearLayout
10          android:layout_width="match_parent"
11          android:layout_height="0dp"
12          android:layout_weight="1"
13          android:background="@color/black"
14          android:gravity="bottom"
15          android:orientation="vertical"
16          android:padding="10dp">
17          <TextView
18              android:id="@+id/input"
19              android:layout_width="match_parent"
20              android:layout_height="wrap_content"
21              android:gravity="end"
22              android:textColor="@color/white"
23              android:textSize="50sp"
24              tools:text="5+10-3" />
25          <TextView
26              android:id="@+id/output"
27              android:layout_width="match_parent"
28              android:layout_height="wrap_content"
29              android:gravity="end"
30              android:textColor="@color/white"
31              android:textSize="72sp"
32              tools:text="12" />
MainActivity.kt  </> activity_main.xml  x  </> activity_splash_screen.xml  </> colors.xml
1  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
9      <LinearLayout
33  </LinearLayout>
34  <TableLayout
35      android:layout_width="match_parent"
36      android:layout_height="wrap_content"
37      android:layout_margin="10dp"
38      android:stretchColumns="*>
39      <TableRow>
40          <androidx.appcompat.widget.AppCompatButton
41              android:id="@+id/button_clear"
42              style="@style/Button_Style"
43              android:layout_width="wrap_content"
44              android:layout_height="90dp"
45              android:text="AC"
46              android:textColor="@color/white"
47              android:background="@drawable/shapefortop"/>
48          <androidx.appcompat.widget.AppCompatButton
49              android:id="@+id/button_bracket_left"
50              style="@style/Button_Style"
51              android:layout_width="wrap_content"
52              android:layout_height="90dp"
53              android:text="("
54              android:background="@drawable/shapefortop"
55              android:textColor="@color/white" />
56          <androidx.appcompat.widget.AppCompatButton
57              android:id="@+id/button_bracket_right"
58              style="@style/Button_Style"
59              android:layout_width="wrap_content"
60              android:background="@drawable/shapefortop"
61              android:layout_height="90dp"
62              android:text=")" />
```

```
MainActivity.kt  </> activity_main.xml  x  </> activity_splash_screen.xml  </> colors.xml

1      <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
34      <TableLayout
39          <TableRow>
56              <androidx.appcompat.widget.AppCompatButton
62                  android:text=""
63                  android:textColor="@color/white" />
64              <androidx.appcompat.widget.AppCompatButton
65                  android:id="@+id/button_division"
66                  style="@style/Button_Style"
67                  android:layout_width="wrap_content"
68                  android:layout_height="90dp"
69                  android:text="/"
70                  android:background="@drawable/shapefororange"
71                  android:textColor="@color/white" />
72          </TableRow>
73          <TableRow>
74              <androidx.appcompat.widget.AppCompatButton
75                  android:id="@+id/button_7"
76                  style="@style/Button_Style"
77                  android:layout_width="wrap_content"
78                  android:layout_height="90dp"
79                  android:text="7" />
80              <androidx.appcompat.widget.AppCompatButton
81                  android:id="@+id/button_8"
82                  style="@style/Button_Style"
83                  android:layout_width="wrap_content"
84                  android:layout_height="90dp"
85                  android:text="8" />
86              <androidx.appcompat.widget.AppCompatButton
87                  android:id="@+id/button_9"
88                  style="@style/Button_Style"
89                  android:layout_width="wrap_content"
90                  android:layout_height="90dp"
91                  android:text="9" />
92          </TableRow>
93          <TableRow>
94              <androidx.appcompat.widget.AppCompatButton
95                  android:id="@+id/button_multiply"
96                  style="@style/Button_Style"
97                  android:layout_width="wrap_content"
98                  android:layout_height="90dp"
99                  android:text="x"
100                  android:background="@drawable/shapefororange"
101                  android:textColor="@color/white" />
102          </TableRow>
103          <TableRow>
104              <androidx.appcompat.widget.AppCompatButton
105                  android:id="@+id/button_4"
106                  style="@style/Button_Style"
107                  android:layout_width="wrap_content"
108                  android:layout_height="90dp"
109                  android:text="4" />
110              <androidx.appcompat.widget.AppCompatButton
111                  android:id="@+id/button_5"
112                  style="@style/Button_Style"
113                  android:layout_width="wrap_content"
114                  android:layout_height="90dp"
115                  android:text="5" />
116              <androidx.appcompat.widget.AppCompatButton
117                  android:id="@+id/button_6"
118                  style="@style/Button_Style"
119                  android:layout_width="wrap_content"
120                  android:layout_height="90dp"
121                  android:text="6" />
122          </TableRow>
123          <TableRow>
124              <androidx.appcompat.widget.AppCompatButton
125                  android:id="@+id/button_1"
126                  style="@style/Button_Style"
127                  android:layout_width="wrap_content"
128                  android:layout_height="90dp"
129                  android:text="1" />
130              <androidx.appcompat.widget.AppCompatButton
131                  android:id="@+id/button_2"
132                  style="@style/Button_Style"
133                  android:layout_width="wrap_content"
134                  android:layout_height="90dp"
135                  android:text="2" />
136              <androidx.appcompat.widget.AppCompatButton
137                  android:id="@+id/button_3"
138                  style="@style/Button_Style"
139                  android:layout_width="wrap_content"
140                  android:layout_height="90dp"
141                  android:text="3" />
142          </TableRow>
143      </TableLayout>
144  </LinearLayout>
```

```
MainActivity.kt  </> activity_main.xml  x  </> activity_splash_screen.xml  </> colors.xml

1      <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
34      <TableLayout
73          <TableRow>
86              <androidx.appcompat.widget.AppCompatButton
89                  android:layout_width="wrap_content"
90                  android:layout_height="90dp"
91                  android:text="9" />
92              <androidx.appcompat.widget.AppCompatButton
93                  android:id="@+id/button_multiply"
94                  style="@style/Button_Style"
95                  android:layout_width="wrap_content"
96                  android:layout_height="90dp"
97                  android:text="x"
98                  android:background="@drawable/shapefororange"
99                  android:textColor="@color/white" />
100          </TableRow>
101          <TableRow>
102              <androidx.appcompat.widget.AppCompatButton
103                  android:id="@+id/button_4"
104                  style="@style/Button_Style"
105                  android:layout_width="wrap_content"
106                  android:layout_height="90dp"
107                  android:text="4" />
108              <androidx.appcompat.widget.AppCompatButton
109                  android:id="@+id/button_5"
110                  style="@style/Button_Style"
111                  android:layout_width="wrap_content"
112                  android:layout_height="90dp"
113                  android:text="5" />
114              <androidx.appcompat.widget.AppCompatButton
115                  android:id="@+id/button_6"
116                  style="@style/Button_Style"
117                  android:layout_width="wrap_content"
118                  android:layout_height="90dp"
119                  android:text="6" />
120          </TableRow>
121          <TableRow>
122              <androidx.appcompat.widget.AppCompatButton
123                  android:id="@+id/button_1"
124                  style="@style/Button_Style"
125                  android:layout_width="wrap_content"
126                  android:layout_height="90dp"
127                  android:text="1" />
128              <androidx.appcompat.widget.AppCompatButton
129                  android:id="@+id/button_2"
130                  style="@style/Button_Style"
131                  android:layout_width="wrap_content"
132                  android:layout_height="90dp"
133                  android:text="2" />
134              <androidx.appcompat.widget.AppCompatButton
135                  android:id="@+id/button_3"
136                  style="@style/Button_Style"
137                  android:layout_width="wrap_content"
138                  android:layout_height="90dp"
139                  android:text="3" />
140          </TableRow>
141      </TableLayout>
142  </LinearLayout>
```

```
MainActivity.kt  activity_main.xml  activity_splash_screen.xml  colors.xml
1  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
34  <TableLayout
101  <TableRow>
114  <androidx.appcompat.widget.AppCompatButton
119  <android:layout_width="wrap_content" />
120  <android:layout_height="90dp" />
121  <android:background="@drawable/shapefororange" />
122  <android:textColor="@color/white" />
123  <android:text="6" /> />
124  <android:layout_width="wrap_content" />
125  <android:layout_height="90dp" />
126  <android:background="@drawable/shapefororange" />
127  <android:textColor="@color/white" />
128  <android:text="-" /> />
129  </TableRow>
130  <TableRow>
131  <androidx.appcompat.widget.AppCompatButton
132  <android:layout_width="wrap_content" />
133  <android:layout_height="90dp" />
134  <android:background="@drawable/shapefororange" />
135  <android:textColor="@color/white" />
136  <android:text="1" /> />
137  <android:layout_width="wrap_content" />
138  <android:layout_height="90dp" />
139  <android:background="@drawable/shapefororange" />
140  <android:textColor="@color/white" />
141  <android:text="2" /> />
142  <android:layout_width="wrap_content" />
143  <android:layout_height="90dp" />
144  <android:background="@drawable/shapefororange" />
145  <android:textColor="@color/white" />
146  <android:text="3" /> />
147  <android:layout_width="wrap_content" />
148  <android:layout_height="90dp" />
149  <android:background="@drawable/shapefororange" />
150  <android:textColor="@color/white" />
151  <android:text="4" /> />
152  <android:layout_width="wrap_content" />
153  <android:layout_height="90dp" />
154  <android:background="@drawable/shapefororange" />
155  <android:textColor="@color/white" />
156  <android:text="5" /> />
157  </TableRow>
158  <TableRow>
159  <androidx.appcompat.widget.AppCompatButton
160  <android:layout_width="wrap_content" />
161  <android:layout_height="90dp" />
162  <android:background="@drawable/shapefororange" />
163  <android:textColor="@color/white" />
164  <android:text="%" /> />
165  <android:layout_width="wrap_content" />
166  <android:layout_height="90dp" />
167  <android:background="@drawable/shapefororange" />
168  <android:textColor="@color/white" />
169  <android:text="0" /> />
170  <android:layout_width="wrap_content" />
171  <android:layout_height="90dp" />
172  <android:background="@drawable/shapefororange" />
173  <android:textColor="@color/white" />
174  <android:text="." /> />
175  </TableRow>
176  </TableLayout>
177  </LinearLayout>
```

```
MainActivity.kt  activity_main.xml  activity_splash_screen.xml  colors.xml
1  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
34  <TableLayout
129  <TableRow>
142  <androidx.appcompat.widget.AppCompatButton
146  <android:layout_width="wrap_content" />
147  <android:layout_height="90dp" />
148  <android:background="@drawable/shapefororange" />
149  <android:textColor="@color/white" />
150  <android:text="3" /> />
151  <android:layout_width="wrap_content" />
152  <android:layout_height="90dp" />
153  <android:background="@drawable/shapefororange" />
154  <android:textColor="@color/white" />
155  <android:text="4" /> />
156  </TableRow>
157  <TableRow>
158  <androidx.appcompat.widget.AppCompatButton
159  <android:layout_width="wrap_content" />
160  <android:layout_height="90dp" />
161  <android:background="@drawable/shapefororange" />
162  <android:textColor="@color/white" />
163  <android:text="5" /> />
164  <android:layout_width="wrap_content" />
165  <android:layout_height="90dp" />
166  <android:background="@drawable/shapefororange" />
167  <android:textColor="@color/white" />
168  <android:text="6" /> />
169  <android:layout_width="wrap_content" />
170  <android:layout_height="90dp" />
171  <android:background="@drawable/shapefororange" />
172  <android:textColor="@color/white" />
173  <android:text="7" /> />
174  </TableRow>
175  <TableRow>
176  <androidx.appcompat.widget.AppCompatButton
177  <android:layout_width="wrap_content" />
178  <android:layout_height="90dp" />
179  <android:background="@drawable/shapefororange" />
180  <android:textColor="@color/white" />
181  <android:text="8" /> />
182  <android:layout_width="wrap_content" />
183  <android:layout_height="90dp" />
184  <android:background="@drawable/shapefororange" />
185  <android:textColor="@color/white" />
186  <android:text="9" /> />
187  </TableRow>
188  </TableLayout>
189  </LinearLayout>
```

```
MainActivity.kt  </> activity_main.xml  </> activity_splash_screen.xml  </> colors.xml
1      <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
34          <TableLayout
157              <TableRow>
164                  <androidx.appcompat.widget.AppCompatButton
166                      style="@style/Button_Style"
167                      android:layout_width="wrap_content"
168                      android:layout_height="90dp"
169                      android:text="0" />
170                  <androidx.appcompat.widget.AppCompatButton
171                      android:id="@+id/button_dot"
172                      style="@style/Button_Style"
173                      android:layout_width="wrap_content"
174                      android:layout_height="90dp"
175                      android:text="." />
176                  <androidx.appcompat.widget.AppCompatButton
177                      android:id="@+id/button_equals"
178                      style="@style/Button_Style"
179                      android:layout_width="wrap_content"
180                      android:layout_height="90dp"
181                      android:background="@drawable/shapefororange"
182                      android:text="="
183                      android:textSize="50dp"
184                      android:textColor="@color/white" />
185              </TableRow>
186          </TableLayout>
187      </LinearLayout>
```

```
MainActivity.kt  </> activity_main.xml  </> activity_splash_screen.xml  </> colors.xml
1      <?xml version="1.0" encoding="utf-8"?>
2      <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
3          android:layout_width="match_parent"
4          android:layout_height="match_parent">
5
6          <TextView
7              android:layout_width="match_parent"
8              android:layout_height="match_parent"
9              android:text="ЗАПЫСКА КАРЬКУЛЯТОРА..."
10             android:textColor="@color/black"
11             android:gravity="center"
12             android:textSize="40sp"
13             android:textStyle="bold">
14      </TextView>
15  </androidx.constraintlayout.widget.ConstraintLayout>
```

```
MainActivity.kt  </> activity_main.xml  </> activity_splash_screen.xml  </> colors.xml  ×
1      <?xml version="1.0" encoding="utf-8"?>
2      <resources>
3          <color name="purple_200">#FFB886FC</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">#FFFFFF</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>
```

