

```
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(uriString: "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) {

```

```
MainActivity.kt x SplashScreen.kt </> activity_main.xml </> activity_splash_screen.xml </> colors.xml
17 class MainActivity : AppCompatActivity() {
19     override fun onCreate(savedInstanceState: Bundle?) {
29         binding.buttonBracketLeft.setOnClickListener {
43             sound = MediaPlayer()
44         } catch (e: IOException) {
45             e.printStackTrace()
46         }
47     }
48     addToInputText(value: "(")
49 }
50 binding.buttonBracketRight.setOnClickListener {
51     addToInputText(value: ")")
52 }
53 binding.button0.setOnClickListener {
54     addToInputText(value: "0")
55 }
56 binding.button1.setOnClickListener {
57     addToInputText(value: "1")
58 }
59 binding.button2.setOnClickListener {
60     addToInputText(value: "2")
61 }
62 binding.button3.setOnClickListener {
63     addToInputText(value: "3")
64 }
65 binding.button4.setOnClickListener {
66     addToInputText(value: "4")
67 }
68 binding.button5.setOnClickListener {
69     addToInputText(value: "5")
70 }
71 binding.button6.setOnClickListener {
```

```

17     class MainActivity : AppCompatActivity() {
18
19         override fun onCreate(savedInstanceState: Bundle?) {
20             // TODO: Add your own initialization here
21
22             // Initialize the calculator logic
23             binding.button6.setOnClickListener {
24                 addToInputText( value: "6")
25             }
26             binding.button7.setOnClickListener {
27                 addToInputText( value: "7")
28             }
29             binding.button8.setOnClickListener {
30                 addToInputText( value: "8")
31             }
32             binding.button9.setOnClickListener {
33                 addToInputText( value: "9")
34             }
35             binding.buttonDot.setOnClickListener {
36                 addToInputText( value: ".")
37             }
38             binding.buttonDivision.setOnClickListener {
39                 addToInputText( value: "/" )
40             }
41             binding.buttonMultiply.setOnClickListener {
42                 addToInputText( value: "*" )
43             }
44             binding.buttonSubtraction.setOnClickListener {
45                 addToInputText( value: "-" )
46             }
47             binding.buttonAddition.setOnClickListener {
48                 addToInputText( value: "+" )
49             }
50             binding.buttonEquals.setOnClickListener {
51                 showResult()
52             }
53         }
54     }

```

MainActivity.kt × SplashScreen.kt </> activity_main.xml </> activity_splash_screen.xml </> colors.xml

```

17      class MainActivity : AppCompatActivity() {
19          override fun onCreate(savedInstanceState: Bundle?) {
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
125  }
  
```

```
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" />
```

```
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 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"
```

```

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"

```

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      <androidx.appcompat.widget.AppCompatButton
120      <androidx.appcompat.widget.AppCompatButton
121      <androidx.appcompat.widget.AppCompatButton
122      <androidx.appcompat.widget.AppCompatButton
123      <androidx.appcompat.widget.AppCompatButton
124      <androidx.appcompat.widget.AppCompatButton
125      <androidx.appcompat.widget.AppCompatButton
126      <androidx.appcompat.widget.AppCompatButton
127      <androidx.appcompat.widget.AppCompatButton
128      </TableRow>
129      <TableRow>
130      <androidx.appcompat.widget.AppCompatButton
131      <androidx.appcompat.widget.AppCompatButton
132      <androidx.appcompat.widget.AppCompatButton
133      <androidx.appcompat.widget.AppCompatButton
134      <androidx.appcompat.widget.AppCompatButton
135      <androidx.appcompat.widget.AppCompatButton
136      <androidx.appcompat.widget.AppCompatButton
137      <androidx.appcompat.widget.AppCompatButton
138      <androidx.appcompat.widget.AppCompatButton
139      <androidx.appcompat.widget.AppCompatButton
140      <androidx.appcompat.widget.AppCompatButton
141      <androidx.appcompat.widget.AppCompatButton
142      <androidx.appcompat.widget.AppCompatButton
143      <androidx.appcompat.widget.AppCompatButton
144      <androidx.appcompat.widget.AppCompatButton
145      <androidx.appcompat.widget.AppCompatButton
146      <androidx.appcompat.widget.AppCompatButton

```



```

1      <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
34      <TableLayout
129      <TableRow>
142      <androidx.appcompat.widget.AppCompatButton
146          android:layout_height="90dp"
147          android:text="3" />
148      <androidx.appcompat.widget.AppCompatButton
149          android:id="@+id/button_addition"
150          style="@style/Button_Style"
151          android:layout_width="wrap_content"
152          android:layout_height="90dp"
153          android:text="+"
154          android:background="@drawable/shapefororange"
155          android:textColor="@color/white" />
156      </TableRow>
157      <TableRow>
158          <androidx.appcompat.widget.AppCompatButton
159              android:id="@+id/button_percent"
160              style="@style/Button_Style"
161              android:layout_width="wrap_content"
162              android:layout_height="90dp"
163              android:text="%" />
164          <androidx.appcompat.widget.AppCompatButton
165              android:id="@+id/button_0"
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"

```

```
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="ЗАГРУЗКА КАЛЬКУЛЯТОРА..."
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 x

```
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">#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>
```

