

Activity_main.xml

```
<? colors.xml    <? activity_main.xml x  MainActivity.kt    <? shape.xml    <? shapefortop.xml    <? activity_splash_screen.xml    AndroidManifest.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="8dp"
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="*">
41         <TableRow>
42             <androidx.appcompat.widget.AppCompatButton
43                 android:id="@+id/button_clear"
44                 style="@style/Button_Style"
45                 android:layout_width="100dp" />
46         </TableRow>
47     </TableLayout>
48 </LinearLayout>
```

```

1      <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
35      <TableLayout
41      <TableRow>
42          <androidx.appcompat.widget.AppCompatButton
50              />
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:textColor="@color/dark_grey" />
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:onClick="playClick"
66              android:textColor="@color/dark_grey" />
67          <androidx.appcompat.widget.AppCompatButton
68              android:id="@+id/button_division"
69              style="@style/Button_Style"
70              android:layout_width="wrap_content"
71              android:layout_height="90dp"
72              android:text="/"
73              android:onClick="playClick"
74              android:textColor="@color/dark_grey" />
75      </TableRow>
76      <TableRow>
77          <androidx.appcompat.widget.AppCompatButton
78              android:textColor="@color/black"
79              android:id="@+id/button_7"
80              style="@style/Button_Style"
81              android:onClick="playClick"
82              android:layout_width="wrap_content"
83              android:layout_height="90dp"
84              android:text="7" />
85          <androidx.appcompat.widget.AppCompatButton
86              android:textColor="@color/black"
87              android:id="@+id/button_8"
88              style="@style/Button_Style"
89              android:onClick="playClick"
90              android:layout_width="wrap_content"

```

```

<? colors.xml    <? activity_main.xml x MainActivity.kt    <? shape.xml    <? shapefortop.xml    <? activity_splash_screen.xml    AndroidManifest.xml

1  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
35  <TableLayout
76  <TableRow>
101  <androidx.appcompat.widget.AppCompatButton
104      android:onClick="playClick"
105      android:layout_width="wrap_content"
106      android:layout_height="90dp"
107      android:text="x"
108
109      android:textColor="@color/dark_grey" />
110  </TableRow>
111  <TableRow>
112  <androidx.appcompat.widget.AppCompatButton
113      android:textColor="@color/black"
114      android:id="@+id/button_4"
115      style="@style/Button_Style"
116      android:layout_width="wrap_content"
117      android:layout_height="90dp"
118      android:onClick="playClick"
119      android:text="4" />
120  <androidx.appcompat.widget.AppCompatButton
121      android:textColor="@color/black"
122      android:id="@+id/button_5"
123      style="@style/Button_Style"
124      android:onClick="playClick"
125      android:layout_width="wrap_content"
126      android:layout_height="90dp"
127      android:text="5" />
128  <androidx.appcompat.widget.AppCompatButton
129      android:textColor="@color/black"
130      android:id="@+id/button_6"
131      style="@style/Button_Style"
132      android:layout_width="wrap_content"
133      android:layout_height="90dp"
134      android:onClick="playClick"
135      android:text="6" />
136  <androidx.appcompat.widget.AppCompatButton
137      android:id="@+id/button_subtraction"
138      style="@style/Button_Style"
139      android:layout_width="wrap_content"
140      android:layout_height="90dp"
141      android:onClick="playClick"
142      android:text="-"
143
144      android:textColor="@color/dark_grey" />

```

MainActivity.kt

```
48 binding.buttonBracketLeft.setOnClickListener {
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 {
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 }
```

```

</> colors.xml    </> activity_main.xml    MainActivity.kt  </> shape.xml    </> shapefortop.xml    </> activity_splash_screen.xml    AndroidManifest
17      class MainActivity : AppCompatActivity() {
19          override fun onCreate(savedInstanceState: Bundle?) {
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 = "0.000000"
121              binding.output.setTextColor(ContextCompat.getColor( context: this, R.color.red))
122          }
123      }

```

Shape.xml

```

</> colors.xml    </> activity_main.xml    MainActivity.kt  </> shape.xml  ×    </> shapefortop.xml    </> activity
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="#FFFFFF" android:endColor="#FFFFFF"/>
5      </shape>

```

Splashscreen.kt

```

3      import android.content.Intent
4      import android.os.Bundle
5      import android.os.Handler
6      import android.os.Looper
7      import androidx.appcompat.app.AppCompatActivity
8
9      class SplashScreen : AppCompatActivity() {
10         override fun onCreate(savedInstanceState: Bundle?) {
11             super.onCreate(savedInstanceState)
12             setContentView(R.layout.activity_splash_screen)
13             Handler(Looper.getMainLooper()).postDelayed({
14                 startActivity(Intent(packageContext: this, MainActivity::class.java))
15             }, delayMillis: 2000)
16         }
17     }
18 }

```

AndroidManifest.xml

```

1  <?xml version="1.0" encoding="utf-8"?>
2  <manifest xmlns:android="http://schemas.android.com/apk/res/android"
3      xmlns:tools="http://schemas.android.com/tools">
4
5      <application
6          android:allowBackup="true"
7          android:dataExtractionRules="@xml/data_extraction_rules"
8          android:fullBackupContent="@xml/backup_rules"
9          android:icon="@mipmap/ic_launcher"
10         android:label="@string/app_name"
11         android:roundIcon="@mipmap/ic_launcher_round"
12         android:supportRtl="true"
13         android:theme="@style/Theme.Ex9"
14         tools:targetApi="31">
15         <activity
16             android:name=".SplashScreen"
17             android:exported="true">
18             <intent-filter>
19                 <action android:name="android.intent.action.MAIN" />
20                 <category android:name="android.intent.category.LAUNCHER" />
21             </intent-filter>
22         </activity>
23         <activity
24             android:name=".MainActivity"
25             android:exported="true">
26             <intent-filter>
27                 <action android:name="android.intent.action.MAIN" />
28                 <category android:name="android.intent.category.LAUNCHER" />
29             </intent-filter>
30         </activity>
31     </application>
32
33 </manifest>

```

Activity_splash_screen.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     <TextView
6         android:layout_width="match_parent"
7         android:layout_height="match_parent"
8         android:text="3АПV3KA..."
9         android:gravity="center"
10        android:textSize="52sp"
11        android:textStyle="bold">
12     </TextView>
13 </androidx.constraintlayout.widget.ConstraintLayout>
```

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ЗАГРУЗКА...



