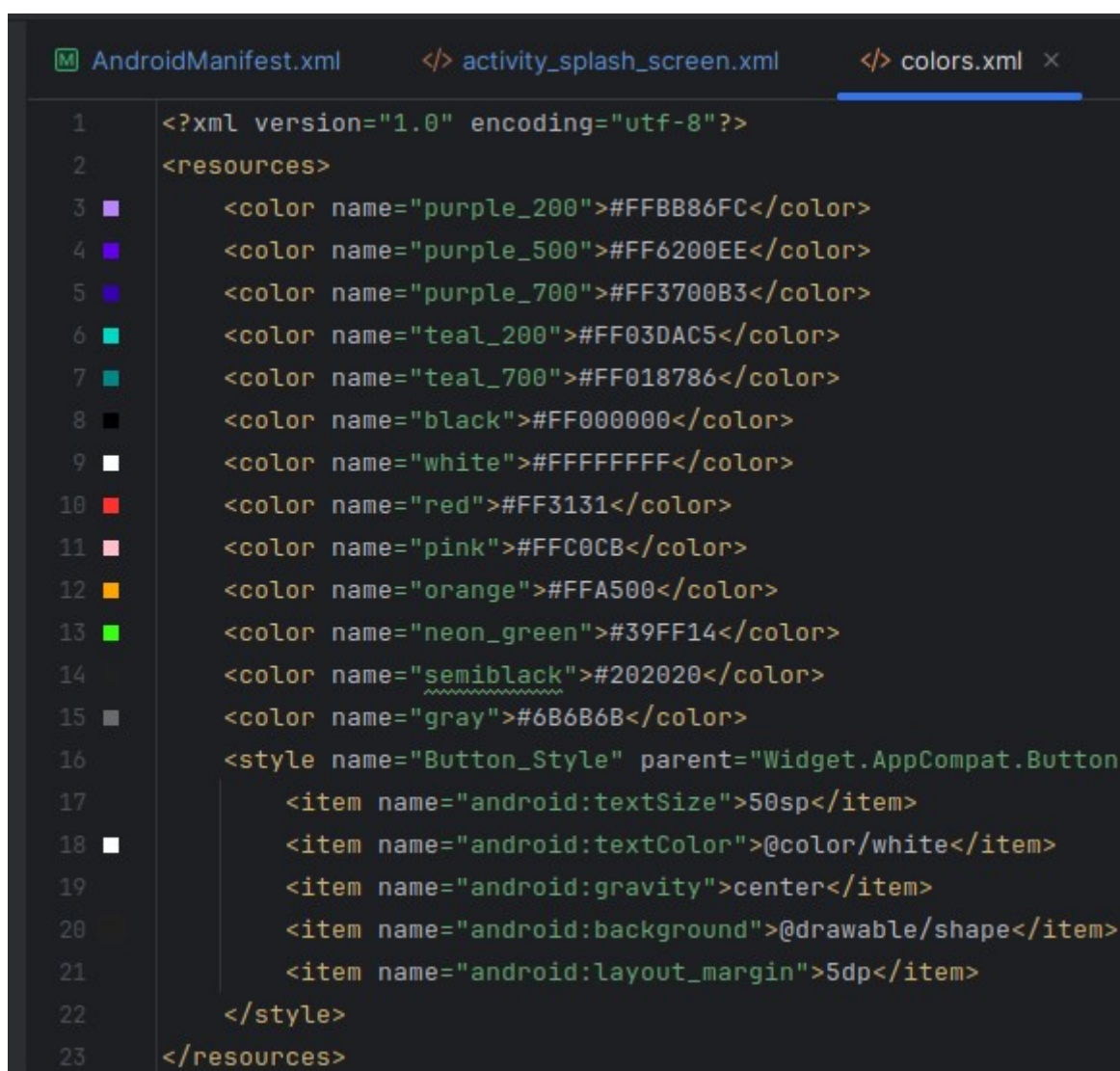


Задание 9

Прописали цвета и стиль кнопок



```
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
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>
```

activity_main

```

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="*>
41      <TableRow>
42          <androidx.appcompat.widget.AppCompatButton

```

```

1      <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
35      <TableLayout
41      <TableRow>
42      <androidx.appcompat.widget.AppCompatButton
44          style="@style/Button_Style"
45          android:layout_width="wrap_content"
46          android:layout_height="90dp"
47          android:text="AC"
48          android:textColor="@color/white"
49          android:background="@drawable/shapefortop" />
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:background="@drawable/shapefortop"
57          android:textColor="@color/white" />
58      <androidx.appcompat.widget.AppCompatButton
59          android:id="@+id/button_bracket_right"
60          style="@style/Button_Style"
61          android:layout_width="wrap_content"
62          android:background="@drawable/shapefortop"
63          android:layout_height="90dp"
64          android:text=")"
65          android:textColor="@color/white" />
66      <androidx.appcompat.widget.AppCompatButton
67          android:id="@+id/button_division"
68          style="@style/Button_Style"
69          android:layout_width="wrap_content"
70          android:layout_height="90dp"
71          android:text="/"
72          android:background="@drawable/shapefororange"
73          android:textColor="@color/white" />
74      </TableRow>
75      <TableRow>
76      <androidx.appcompat.widget.AppCompatButton
77          android:id="@+id/button_7"
78          style="@style/Button_Style"
79          android:layout_width="wrap_content"
80          android:layout_height="90dp"
81          android:text="7" />

```

```

1      <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
35      <TableLayout
75      <TableRow>
82          <androidx.appcompat.widget.AppCompatButton
83              android:id="@+id/button_8"
84              style="@style/Button_Style"
85              android:layout_width="wrap_content"
86              android:layout_height="90dp"
87              android:text="8" />
88          <androidx.appcompat.widget.AppCompatButton
89              android:id="@+id/button_9"
90              style="@style/Button_Style"
91              android:layout_width="wrap_content"
92              android:layout_height="90dp"
93              android:text="9" />
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"

```



```

1      <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
35      <TableLayout
103      <TableRow>
115          <androidx.appcompat.widget.AppCompatButton
116              android:id="@+id/button_6"
117              style="@style/Button_Style"
118              android:layout_width="wrap_content"
119              android:layout_height="90dp"
120              android:text="5" />
121          <androidx.appcompat.widget.AppCompatButton
122              android:id="@+id/button_subtraction"
123              style="@style/Button_Style"
124              android:layout_width="wrap_content"
125              android:layout_height="90dp"
126              android:text="-"
127              android:background="@drawable/shapefororange"
128              android:textColor="@color/white" />
129      </TableRow>
130      <TableRow>
131      <androidx.appcompat.widget.AppCompatButton
132          android:id="@+id/button_1"
133          style="@style/Button_Style"
134          android:layout_width="wrap_content"
135          android:layout_height="90dp"
136          android:text="1" />
137      <androidx.appcompat.widget.AppCompatButton
138          android:id="@+id/button_2"
139          style="@style/Button_Style"
140          android:layout_width="wrap_content"
141          android:layout_height="90dp"
142          android:text="2" />
143      <androidx.appcompat.widget.AppCompatButton
144          android:id="@+id/button_3"
145          style="@style/Button_Style"
146          android:layout_width="wrap_content"
147          android:layout_height="90dp"
148          android:text="3" />
149      <androidx.appcompat.widget.AppCompatButton
150          android:id="@+id/button_addition"
151          style="@style/Button_Style"
152          android:layout_width="wrap_content"
153

```

```

1      <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
35      <TableLayout
131      <TableRow>
157          android:textColor="@color/white" />
158      </TableRow>
159      <TableRow>
160          <androidx.appcompat.widget.AppCompatButton
161              android:id="@+id/button_percent"
162              style="@style/Button_Style"
163              android:layout_width="wrap_content"
164              android:layout_height="90dp"
165              android:text="%" />
166          <androidx.appcompat.widget.AppCompatButton
167              android:id="@+id/button_0"
168              style="@style/Button_Style"
169              android:layout_width="wrap_content"
170              android:layout_height="90dp"
171              android:text="0" />
172          <androidx.appcompat.widget.AppCompatButton
173              android:id="@+id/button_dot"
174              style="@style/Button_Style"
175              android:layout_width="wrap_content"
176              android:layout_height="90dp"
177              android:text="." />
178          <androidx.appcompat.widget.AppCompatButton
179              android:id="@+id/button_equals"
180              style="@style/Button_Style"
181              android:layout_width="wrap_content"
182              android:layout_height="90dp"
183              android:background="@drawable/shapefororange"
184              android:text="="
185              android:textSize="50dp"
186              android:textColor="@color/white" />
187      </TableRow>
188      </TableLayout>
189      </LinearLayout>
190

```

MainActivity:

```
10
11 class MainActivity : AppCompatActivity() {
12     private lateinit var binding: ActivityMainBinding
13     override fun onCreate(savedInstanceState: Bundle?) {
14         binding = ActivityMainBinding.inflate(layoutInflater)
15         super.onCreate(savedInstanceState)
16         enableEdgeToEdge()
17         setContentView(binding.root)
18
19         binding.buttonClear.setOnClickListener {
20             binding.input.text = " "
21             binding.output.text = " "
22         }
23         binding.buttonBracketLeft.setOnClickListener {
24             addToInputText("(")
25         }
26         binding.buttonBracketRight.setOnClickListener {
27             addToInputText(")")
28         }
29         binding.button0.setOnClickListener {
30             addToInputText("0")
31         }
32         binding.button1.setOnClickListener {
33             addToInputText("1")
34         }
35         binding.button2.setOnClickListener {
36             addToInputText("2")
37         }
38         binding.button3.setOnClickListener {
39             addToInputText("3")
40         }
41         binding.button4.setOnClickListener {
42             addToInputText("4")
43         }
44         binding.button5.setOnClickListener {
45             addToInputText("5")
46         }
47         binding.button6.setOnClickListener {
48             addToInputText("6")
49         }
50         binding.button7.setOnClickListener {
51             addToInputText("7")
```

```

52     }
53     binding.button8.setOnClickListener {
54         addToInputText("8")
55     }
56     binding.button9.setOnClickListener {
57         addToInputText("9")
58     }
59     binding.buttonDot.setOnClickListener {
60         addToInputText(".")
61     }
62     binding.buttonDivision.setOnClickListener {
63         addToInputText("/")
64     }
65     binding.buttonMultiply.setOnClickListener {
66         addToInputText("x")
67     }
68     binding.buttonSubtraction.setOnClickListener {
69         addToInputText("-")
70     }
71     binding.buttonAddition.setOnClickListener {
72         addToInputText("+")
73     }
74     binding.buttonEquals.setOnClickListener {
75         showResult()
76     }
77     binding.buttonPercent.setOnClickListener {
78         addToInputText("%")
79     }
80 }
81
82 private fun addToInputText(value: String) {
83     binding.input.append(value)
84 }
85
86 private fun getInputExpression(): String {
87     return binding.input.text.toString()
88 }
89
90 private fun showResult() {

```

```

    private fun showResult() {
        try {
            val expression = getInputExpression().replace("%", "/100")
            val result = ExpressionBuilder(expression).build().evaluate()
            binding.output.text = DecimalFormat("0.#####").format(result).toString()
        } catch (e: Exception) {
            binding.output.text = "Ошибка"
            binding.output.setTextColor(ContextCompat.getColor(this, R.color.red))
        }
    }
}

```

Заставка:


```

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="Калькулятор"
9         android:gravity="center"
10        android:textSize="24sp"
11        android:textStyle="bold">
12    </TextView>
13 </androidx.constraintlayout.widget.ConstraintLayout>

```

```

AndroidManifest.xml  </> activity_splash_screen.xml  SplashScreen.kt  </> activity_main.xml  MainActivity.kt
1 package com.test.calc
2
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(this, MainActivity::class.java))
15         }, 500)
16     }
17
18 }

```

Результат

