Практическая работа (Приложение секундомер)

Activity_main.xml:

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   android:id="@+id/main"
   android:layout width="match parent"
   android:layout height="match parent"
   android:gravity="center"
   <Chronometer
        android:layout width="wrap content"
        android:layout height="wrap content"
   <LinearLayout
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:orientation="vertical">
            android:layout_height="wrap_content"
android:text="@string/start"
            android:layout margin="14dp"/>
            android:id="@+id/btnPause"
            android:layout margin="14dp"/>
            android:layout width="wrap content"
            android:layout_height="wrap_content"
            android:layout margin="14dp"/>
   </LinearLayout>
```

Colors.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
```

```
<color name="black">#FF000000</color>
     <color name="white">#FFFFFFFF</color>
     <color name="green">#248A1C</color>
</resources>
```

Strings.xml:

MainActivity.kt:

```
import android.widget.Button
import android.widget.Chronometer
import androidx.appcompat.app.AppCompatActivity
class MainActivity : AppCompatActivity() {
   override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity main)
       chronometr = findViewById(R.id.textTime)
        val btnReset = findViewById<Button>(R.id.btnReset)
           offset = savedInstanceState.getLong(OFFSET KEY)
           running = savedInstanceState.getBoolean(RUNNING KEY)
               chronometr.base = savedInstanceState.getLong(BASE KEY)
               setBaseTime()
           setBaseTime()
        btnStart.setOnClickListener {
               setBaseTime()
```

```
btnPause.setOnClickListener {
    if (running) {
        saveOffset()
        chronometr.stop()
        running = false
    }
}
btnReset.setOnClickListener {
    offset = 0
        setBaseTime()
        running = false
}

override fun onSaveInstanceState(outState: Bundle) {
    outState.putLong(OFFSET KBY, offset)
    outState.putBoolean(RUNNING_KEY, running)
    outState.putLong(BASE_KEY, chronometr.base)
    super.onSaveInstanceState(outState)

private fun saveOffset() {
    offset = SystemClock.elapsedRealtime() - chronometr.base
}

private fun setBaseTime() {
    chronometr.base = SystemClock.elapsedRealtime() - offset
}
```

