СЕКУНДОМЕР

ВЫПОЛНИЛИ: ИМАМГУЛИЕВ, ДЕГТЯРЕВ, ЯРУЛИНА

ACTIVITY MAIN:

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="24dp"
    tools:context=".MainActivity">

    <Chronometer
        android:id="@+id/chronometer"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="60sp"
        android:layout_gravity="center_horizontal"
        android:format="%s" />

    <Button
        android:id="@+id/btnStart"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/start"
        android:layout_gravity="center_horizontal"
        android:layout_marginTop="16dp"/>

    <Button
        android:id="@+id/btnPause"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/pause"
        android:layout_gravity="center_horizontal"
        android:layout_marginTop="8dp"/>

    <Button
        android:id="@+id/btnReset"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/reset"
        android:layout_gravity="center_horizontal"
        android:layout_marginTop="8dp"/>
</LinearLayout>
```

MAIN ACTIVITY:

```kotlin
package com.example.imamdag2

import android.os.Bundle
import android.os.SystemClock
import android.widget.Button
import android.widget.Chronometer
import androidx.appcompat.app.AppCompatActivity

class MainActivity : AppCompatActivity() {

    private lateinit var chrono: Chronometer

    private var running = false        // идёт ли сейчас отсчёт
```

```kotlin
    private var offset: Long = 0L              // накопленная пауза (мс)

    private val KEY_RUNNING = "running"
    private val KEY_OFFSET  = "offset"
    private val KEY_BASE     = "base"

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        chrono = findViewById(R.id.chronometer)
        val btnStart: Button = findViewById(R.id.btnStart)
        val btnPause: Button = findViewById(R.id.btnPause)
        val btnReset: Button = findViewById(R.id.btnReset)

        // восстановление после поворота/перезапуска активности
        if (savedInstanceState != null) {
            running = savedInstanceState.getBoolean(KEY_RUNNING, false)
            offset  = savedInstanceState.getLong(KEY_OFFSET, 0L)
            val savedBase = savedInstanceState.getLong(KEY_BASE,
SystemClock.elapsedRealtime())
            chrono.base = savedBase
            if (running) chrono.start()
        } else {
            chrono.base = SystemClock.elapsedRealtime() - offset
        }

        btnStart.setOnClickListener {
            if (!running) {
                chrono.base = SystemClock.elapsedRealtime() - offset
                chrono.start()
                running = true
            }
        }

        btnPause.setOnClickListener {
            if (running) {
                offset = SystemClock.elapsedRealtime() - chrono.base
                chrono.stop()
                running = false
            }
        }

        btnReset.setOnClickListener {
            chrono.stop()
            running = false
            offset = 0L
            chrono.base = SystemClock.elapsedRealtime()
        }
    }

    override fun onStop() {
        super.onStop()
        // при уходе с экрана аккуратно фиксируем offset
        if (running) {
            offset = SystemClock.elapsedRealtime() - chrono.base
            chrono.stop()
            running = false
        }
    }

    override fun onSaveInstanceState(outState: Bundle) {
        outState.putBoolean(KEY_RUNNING, running)
        outState.putLong(KEY_OFFSET, offset)
```

```
        outState.putLong(KEY_BASE, chrono.base)
        super.onSaveInstanceState(outState)
    }
}
```

ANDROID MANIFEST:

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest package="com.example.imamdag2"
    xmlns:android="http://schemas.android.com/apk/res/android">

    <application
        android:label="@string/app_name"
        android:icon="@mipmap/ic_launcher"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:allowBackup="true"
        android:theme="@style/Theme.ImamDag">

        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN"/>
                <category android:name="android.intent.category.LAUNCHER"/>
            </intent-filter>
        </activity>

    </application>
</manifest>
```

STRINGS:

```xml
<resources>
    <string name="app_name">IMAMDAG 2</string>
    <string name="start">Start</string>
    <string name="pause">Pause</string>
    <string name="reset">Reset</string>
</resources>
```

THEMES:

```xml
<resources>
    <style name="Theme.ImamDag"
parent="Theme.MaterialComponents.DayNight.NoActionBar" />
</resources>
```

Вот пример работы: