

Задание 6. Коваленко Кирилл ИС221

Код:

```
activity_main.xml × strings.xml × MainActivity.kt × build.gradle.kts (.app) ×

2 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
5     android:id="@+id/main"
6     android:layout_width="match_parent"
7     android:layout_height="match_parent"
8
9     tools:context=".MainActivity">
10    <LinearLayout
11        android:layout_width="match_parent"
12        android:layout_height="match_parent"
13        android:orientation="vertical"
14        android:layout_margin="45dp"
15        android:background="@drawable/shape">
16        <Chronometer
17            android:id="@+id/chrono"
18            android:layout_width="wrap_content"
19            android:layout_height="wrap_content"
20            android:layout_gravity="center"
21            android:layout_marginTop="100dp"
22            android:padding="20dp"
23            android:textSize="80sp"/>
24        <Button
25            android:id="@+id/start"
26            android:layout_width="175dp"
27            android:layout_height="wrap_content"
28            android:layout_marginTop="30dp"
29            android:layout_marginBottom="15dp"
30            android:background="@drawable/shapestart"
31            android:textSize="30sp"
32            android:layout_gravity="center"
33            android:text="START"/>
34        <Button
35            android:id="@+id/pause"
36            android:layout_width="175dp"
37            android:layout_height="wrap_content"
38            android:layout_marginVertical="15dp"
39            android:background="@drawable/shapepause"
40            android:textSize="30sp"
41            android:layout_gravity="center"
42            android:text="PAUSE"/>
43        <Button
44            android:id="@+id/reset"
45            android:layout_width="175dp"
46            android:layout_height="wrap_content"
47            android:layout_marginVertical="15dp"
48            android:background="@drawable/shapereset"
49            android:textSize="30sp"
50            android:layout_gravity="center"
51            android:text="RESET"/>
52    </LinearLayout>

translations for all locales in the translations editor.
<resources>
    <string name="app_name">test4</string>
    <string name="pause">PAUSE</string>
    <string name="start">START</string>
    <string name="reset">RESET</string>
</resources>
```

```

class MainActivity : AppCompatActivity() {
    private lateinit var binding: ActivityMainBinding
    lateinit var chronometer: Chronometer
    var running: Boolean = false
    var offset: Long = 0
    val OFFSET_KEY = "offset"
    val RUNNING_KEY = "running"
    val BASE_KEY = "base_key"

    override fun onCreate(savedInstanceState: Bundle?) {
        binding = ActivityMainBinding.inflate(layoutInflater)
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(binding.root)
        chronometer = binding.chrono
        val start = binding.start
        val pause = binding.pause
        val reset = binding.reset
        if(savedInstanceState != null){
            offset = savedInstanceState.getLong(OFFSET_KEY)
            running = savedInstanceState.getBoolean(RUNNING_KEY)
            if(running){
                chronometer.base = savedInstanceState.getLong(BASE_KEY)
                chronometer.start()
            }
            else setBaseTime()
        }
        start.setOnClickListener {
            if (!running){
                setBaseTime()
                chronometer.start()
                running = true
            }
        }
        pause.setOnClickListener {
            if(running){
                saveOffset()
                chronometer.stop()
                running = false
            }
        }
        reset.setOnClickListener {
            offset = 0
            setBaseTime()
            running = false
        }
    }
}

```

```

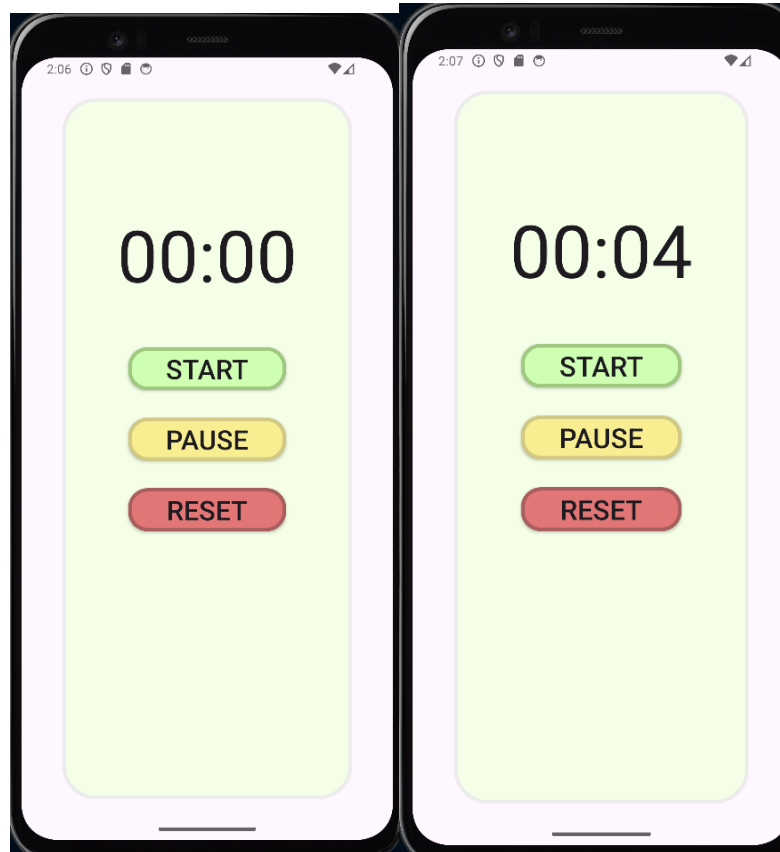
private fun saveOffset(){
    offset = SystemClock.elapsedRealtime() - chronometer.base
}

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

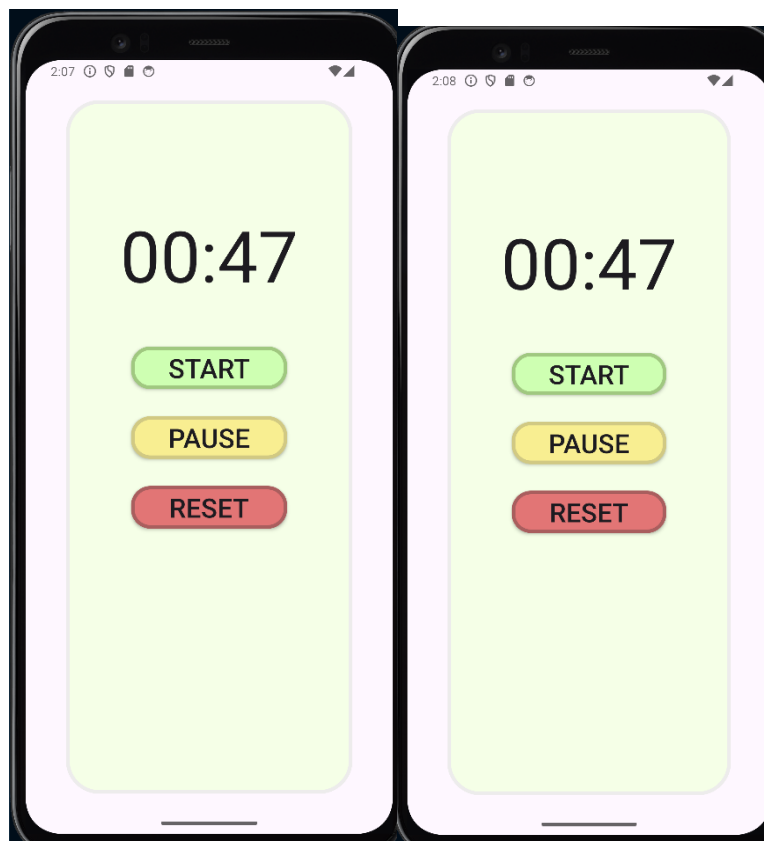
override fun onSaveInstanceState(savedInstanceState: Bundle) {
    savedInstanceState.putLong("offset", offset)
    savedInstanceState.putBoolean("running", running)
    savedInstanceState.putLong("base_key", chronometer.base)
    super.onSaveInstanceState(savedInstanceState)
}

```

Проверка функционала кнопки START:



Проверка функционала кнопки PAUSE:



Проверка функционала кнопки RESET:

