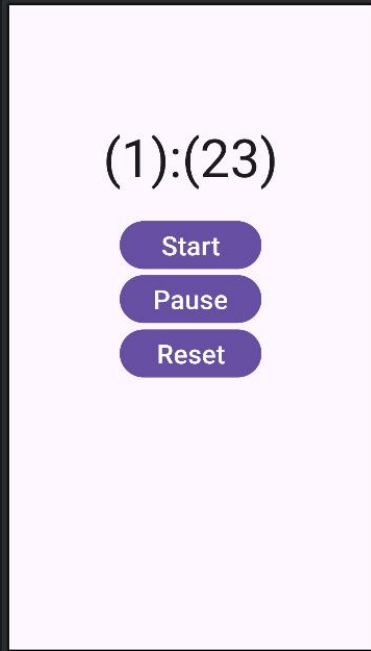


6. Практическая работа (Приложение секундомер)

- Создал макет приложения



Хронометр

```
<Chronometer
    android:id="@+id/chronometer1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:textSize="60sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.202" />
```

Кнопка

```
<Button
    android:id="@+id/btnStart"
    android:layout_width="161dp"
    android:layout_height="62dp"
    android:text="@string/start"
    android:textSize="30sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.36" />
```

- Написал код для MainActivity
 - Теперь приложение работает.
 - Start начинает и продолжает отсчёт
 - Pause останавливает таймер
 - Reset возвращает значение секундомера к 00:00

```

class MainActivity : AppCompatActivity() {
    lateinit var chronometr : Chronometer
    var running : Boolean = false
    var offset : Long = 0

    val OFFSET_KEY = "offset"
    val RUNNING_KEY = "running"
    val BASE_KEY = "base_key"

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

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

    @SuppressWarnings("MissingInflatedId")
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity_main)
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) { v, insets ->
            val systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars())
            v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom)
            insets
        }

        chronometr = findViewById(R.id.chronometer1)
        val btnStart = findViewById<Button>(R.id.btnStart)
        val btnPause = findViewById<Button>(R.id.btnPause)
        val btnReset = findViewById<Button>(R.id.btnReset)

        if(savedInstanceState != null){
            offset = savedInstanceState.getLong(OFFSET_KEY)
            running = savedInstanceState.getBoolean(RUNNING_KEY)
            if (running){
                chronometr.base = savedInstanceState.getLong(BASE_KEY)
                chronometr.start()
            } else setBaseTime()
        }

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

        btnStart.setOnClickListener {
            if (!running){
                setBaseTime()
                chronometr.start()
                running = true
            }
        }
    }

```

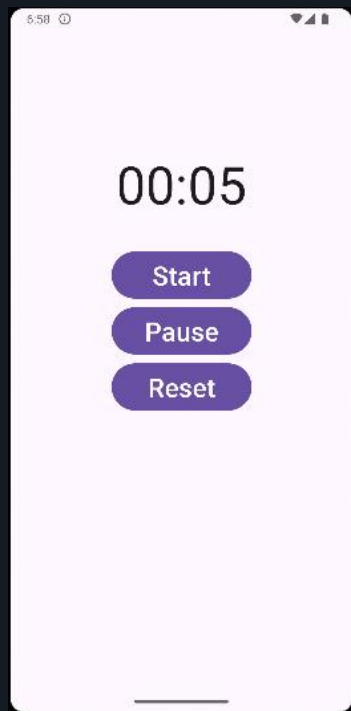
```

        btnPause.setOnClickListener {
            if (running){
                saveOffset()
                chronometr.stop()
                running = false
            }
        }

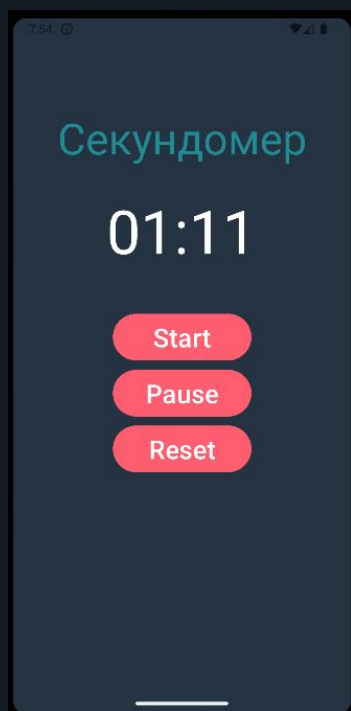
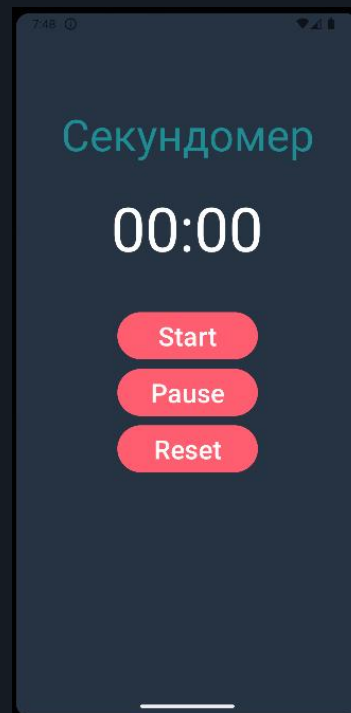
        btnReset.setOnClickListener {
            offset = 0
            setBaseTime()
            running = false
        }
    }
}

```

▪ Работа приложения



▪ Конечный дизайн



■	<code><color name="off_black">#253343</color></code>
■	<code><color name="fiery_rose">#ff5d70</color></code>
■	<code><color name="lochinvan">#218c94</color></code>