# Лаба 1-7 Тысленко Егор ис221

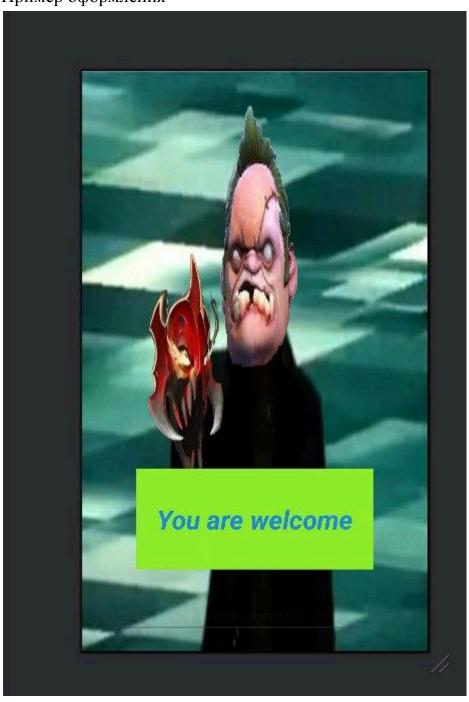
Лаба Создаем среду textView и пишем в нее параметры

```
<TextView
   android:id="@+id/textView3"
   android:layout_width="317dp"
    android:layout_height="134dp"
    android:layout_gravity="center"
    android:background="@color/green"
    android:gravity="center"
    android:text="You are welcome"
    android:textColor="@color/blue"
   android:textSize="35sp"
   android:textStyle="bold|italic"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.83" />
```

### Создаем среду editText и пишем в нее параметры

```
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView3"
    android:layout_margin="40dp"
    android:hint="@string/str2"
    android:gravity="center"
    android:textColor="@color/green"/>
```

# Пример оформления



### Меняем цвет фона

```
<TextView
    android:id="@+id/textView3"
   android:layout_width="317dp"
    android:layout_height="134dp"
    android:layout_gravity="center"
    android:background=""
    android:gravity="center"
    android:text="@string/ffewfewfw"
    android:textColor="@color/blue"
    android:textSize="35sp"
   android:textStyle="bold|italic"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.83"
    android:fontFamily="monospace"/>
```

#### Создаем класс кнопки

```
<Button
    android:id="@+id/btn_1"
    android:layout_width="275dp"
    android:layout_height="53dp"
    android:layout_marginBottom="20dp"
    app:layout_constraintBottom_toTopOf="@+id/textView3"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    android:text="START"/>
```

```
val btn: Button = findViewById(R.id.btn_1)
btn.setOnClickListener{
    val intent = Intent( packageContext: this, MainActivity2::class.jαvα)
    startActivity(intent)
```

# Создаем вторую страницу чтоб передать параметры в нашу кнопку

```
package con.example.first1uno

import ...

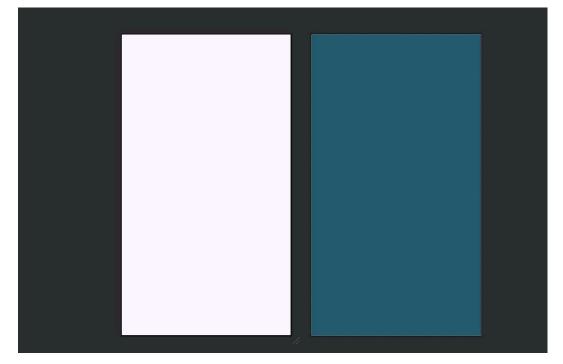
class MainActivity2 : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity_main2)
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) { v, insets ->
            val systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars.fight, systemBars.bottom)
        insets
    }

}

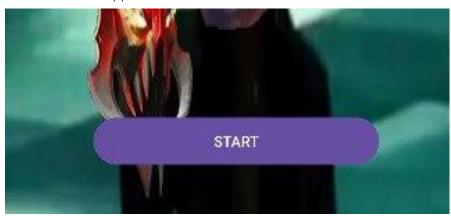
}

}

}
```



#### Вот так выглядит наша кнопка



#### Наше пива

### Наша кнопка и спиннер

```
<Button
    android:id="@+id/btn1"
    android:layout_width="166dp"
    android:layout_height="66dp"
    android:layout_marginBottom="60dp"
    android:text="Y3HATЬ ПИВО"
    app:layout_constraintBottom_toTopOf="@+id/beerra app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.485"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="1.0" />
```

```
<TextView
    android:id="@+id/tvBeer"
    android:layout_width="299dp"
    android:layout_height="86dp"
    android:layout_margin="10dp"
    android:gravity="center"
    android:text="TNN NNBA!"
    android:textSize="26dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.282" />
<Spinner
    android:id="@+id/beerrand"
    android:layout_width="169dp"
    android:layout_height="80dp"
    android:layout_marginBottom="168dp"
    android:gravity="center"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/tvBeer"
    app:layout_constraintVertical_bias="1.0"
    android:entries="@array/type_beer"
```

# Прописываем код для того чтоб спиннер выдал нам вкусное пиво

# Таймер

```
<Button
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="Start"
     android:id="@+id/btnstart"
     tools:layout_editor_absoluteX="38dp"
     tools:layout_editor_absoluteY="434dp" />
 <Button
     android:id="@+id/btnpause"
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="Pause"
     tools:layout_editor_absoluteX="157dp"
     tools:layout_editor_absoluteY="434dp" />
 <Button
     android:id="@+id/btnreset"
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="Reset"
     tools:layout_editor_absoluteX="281dp"
     tools:layout_editor_absoluteY="434dp" />
 <Chronometer
     android:id="@+id/textTime"
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:layout_gravity="center"
     app:layout_constraintTop_toTopOf="@+id/btnpause"
     tools:layout_editor_absoluteX="27dp" />
inearLayout>
```

```
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"
   @SuppressLint("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.bd
           insets
       chronometr = findViewById(R.id.textTime)
       val btnStart = findViewById<Button>(R.id.btnstart)
        val btnReset = findViewById<Button>(R.id.btnreset)
       val btnPause = findViewById<Button>(R.id.btnpause)
        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()
```

```
<TextView
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Привет!"
    android:textSize="40dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.532"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.323" />
<CheckBox
    android:id="@+id/cbCar"
    android:layout_width="97dp"
    android:layout_height="54dp"
    android:text="Машина"
    app:layout_constraintBottom_toTopOf="@+id/btnChoose"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView" />
<CheckBox
    android:id="@+id/cbBus"
    android:layout_width="103dp"
    android:layout_height="52dp"
    android:layout_marginEnd="20dp"
    android:text="Автобус"
    app:layout_constraintBottom_toTopOf="@+id/btnChoose"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/cbCar"
    app:layout_constraintTop_toBottomOf="@+id/textView" />
```

# Мы выбираем тип машины

```
<CheckBox
    android:id="@+id/cbTrack"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Трактор"
    app:layout_constraintBottom_toTopOf="@+id/btnChoose"
    app:layout_constraintEnd_toStartOf="@+id/cbCar"
    app:layout_constraintHorizontal_bias="0.757"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView"
    app:layout_constraintVertical_bias="0.507" />
<Button
    android:id="@+id/btnChoose"
    android: layout_width="166dp"
    android:layout_height="76dp"
    android:gravity="center"
    android:text="Выбор"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.538"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView"
    app:layout_constraintVertical_bias="0.48" />
<TextView
    android:id="@+id/tvChoose"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:textSize="40dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/btnChoose" />
<WebView
```

### Веб ссылка (забыл заскринить код для того чтоб работало)

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
xmlns:tools="http://schemas.android.com/tools">
<uses-permission android:name="android.permission.INTERNET"/>
    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
       android:icon="@mipmap/ic_launcher"
        android:label="3third"
       android:roundIcon="@mipmap/ic_launcher_round"
       android:supportsRtl="true"
       android:theme="@style/Theme._3third"
        tools:targetApi="31">
        <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>
```

```
<WebView
    android:id="@+id/wvMain"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginStart="8dp"
    app:layout_constraintBottom_toTopOf="@+id/textView
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.08" />
```

# Прописываем изображение и список

```
<
```

```
<?xml version="1.0" encoding="utf-8"?>
LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
   android:layout_width="match_parent"
   android:layout_height="match_parent">
   <ImageView
       android:id="@+id/ImageView"
       android:layout_width="84dp"
       android:layout_height="86dp"
       android:layout_margin="15dp"
   <TextView
       android:layout_width="196dp"
       android:layout_height="53dp"
       android:layout_margin="15dp"
       android:text="Some text"
       android:textSize="52px"
       android:id="@+id/tvList"/>
/LinearLayout>
```

# Пропишим акшены

```
}
val adapter = Adapte( context this, items)
listView.adapter = adapter
listView.setOnItemClickListener { parent, view, position, id ->
val selectedItem = items[position]
when (selectedItem.action) {
    "Action1" -> {
        Toast.makeText( context this, text "Первый элемент списка", Toast.LENGTH_SHORT).show()
    }
    "Action2" -> {
        Toast.makeText( context this, text "Второй элемент списка", Toast.LENGTH_SHORT).show()
    }

    "Action3" -> Toast.makeText( context this, text "Третий элемент списка", Toast.LENGTH_SHORT).show()
}

}

*Action3" -> Toast.makeText( context this, text "Третий элемент списка", Toast.LENGTH_SHORT).show()
}
```

# Добавим дата класс (он очень важен)

```
package com.example.cincofive5

data class lists(val imageR:Int, val text: String,val action : String)
```

### Осталось прописать листы

```
package com.example.cincofive5
import
class MainActivity : AppCompatActivity() {
    @SuppressLint("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
        val items = list0f(
            lists(R.drawable.cat, text: "Hello", action: "Action1"),
            lists(R.drawable.cat, text: "H", action: "Action2"),
            lists(R.drawable.cat, text: "AAA", action: "Action3"),
            lists(R.drawable.cat, text: "HHHHH", action: "Action4"),
            lists(R.drawable.cat, text: "SSSS", action: "Action5"),
            lists(R.drawable.cat, text: "IIIII", action: "Action6")
        val listView : ListView = findViewById(R.id.lvMain)
        val arrayAdapter : ArrayAdapter<*>
        val names = arrayOf("Misha", "Sasho", "Grisha", "VaZya")
        arrayAdapter = ArrayAdapter( context: this, android.R.layout.simple_list_item_1, names)
        listView.<u>adapter</u> = arrayAdapter
        listView.setOnItemClickListener { parent, view, position, id ->
            val selectItem = names[position]
            Toast.makeText( context: this, text: "Вы нажали на элемент", Toast.LENGTH_SHORT).show()
```