

Лабораторная работа №3 (Android)
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MainActivity.kt

```
package com.example.myapplication_koz

import android.content.Intent
import android.os.Bundle
import android.widget.Button
import androidx.activity.enableEdgeToEdge
import androidx.appcompat.app.AppCompatActivity
import androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat
import java.io.Serializable

class MainActivity : AppCompatActivity() {
    // Класс для передачи объекта
    data class UserInfo(val name: String, val score: Int) : Serializable

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

        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.KZ1))
        { v, insets ->
            val systemBars =
            insets.getInsets(WindowInsetsCompat.Type.systemBars())
            v.setPadding(systemBars.left, systemBars.top, systemBars.right,
            systemBars.bottom)
            insets
        }

        val btn: Button = findViewById(R.id.btn_start)
        btn.setOnClickListener {
            Intent(this, MainActivity2::class.java).apply {
                // Передаем разные типы данных
                putExtra("text_str", "Добро пожаловать!")
                putExtra("number_int", 100)
            }
        }
    }
}
```

```

        putExtra("rating_double", 4.5)
        putExtra("is_active", true)
        putExtra("user_info", UserInfo("Ирпок", 1500))
        startActivity(this)
    }
}
}

```

MainActivity2.kt

```
package com.example.lab1
```

```

import android.os.Bundle
import android.widget.TextView
import androidx.activity.enableEdgeToEdge
import androidx.appcompat.app.AppCompatActivity
import androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat

```

```

class MainActivity2 : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity_main2)

```

```

        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.KZ
        2)) { v, insets ->
            val systemBars =
            insets.getInsets(WindowInsetsCompat.Type.systemBars())
            v.setPadding(systemBars.left, systemBars.top, systemBars.right,
            systemBars.bottom)
            insets
        }

```

```

        val textView = TextView(this).apply {
            text = buildString {
                appendLine("Сообщение: ${intent.getStringExtra("text_str")}")
                appendLine("Очки: ${intent.getIntExtra("number_int", 0)}")
            }

```

```

        appendLine("Рейтинг:
${intent.getDoubleExtra("rating_double", 0.0)}")
        appendLine("Активен: ${intent.getBooleanExtra("is_active",
false)}")

        val user = intent.getSerializableExtra("user_info") as?
MainActivity.UserInfo
        appendLine("Пользователь: ${user?.name}, счет:
${user?.score}")
    }
    setTextColor(resources.getColor(R.color.blue))
    textSize = 18f
}

findViewById<androidx.constraintlayout.widget.ConstraintLayout>(R.id.
KZ2).apply {
    addView(textView)
}
}
}

```

3. activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?><LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/KZ1"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:background="@drawable/fon"
    android:gravity="center"
    android:padding="16dp">

    <TextView
        android:id="@+id/lab1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:background="@color/green"
        android:gravity="center"

```

```
android:text="@string/str1"
android:textAllCaps="false"
android:textColor="@color/blue"
android:textSize="35sp"/>
```

```
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="40dp"
    android:gravity="center"
    android:hint="@string/str2"
    android:background="@color/white"
    tools:layout_editor_absoluteX="125dp"
    tools:layout_editor_absoluteY="375dp"/>
```

```
<androidx.appcompat.widget.AppCompatButton
    android:id="@+id/btn_start"
    style="@style/btn_style1"
    android:text="@string/str3"/></LinearLayout>
```

4. activity_main2.xml)

```
<?xml version="1.0" encoding="utf-8"?><androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/KZ2"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:padding="24dp"
    tools:context=".MainActivity2"></androidx.constraintlayout.widget.ConstraintLayout>
```