Задание 2-3. Создание кнопки и переход в новую активность.

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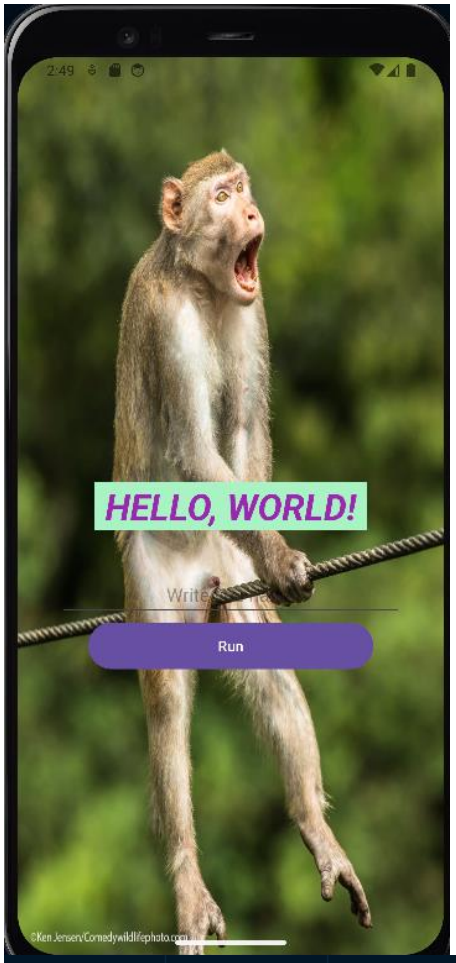


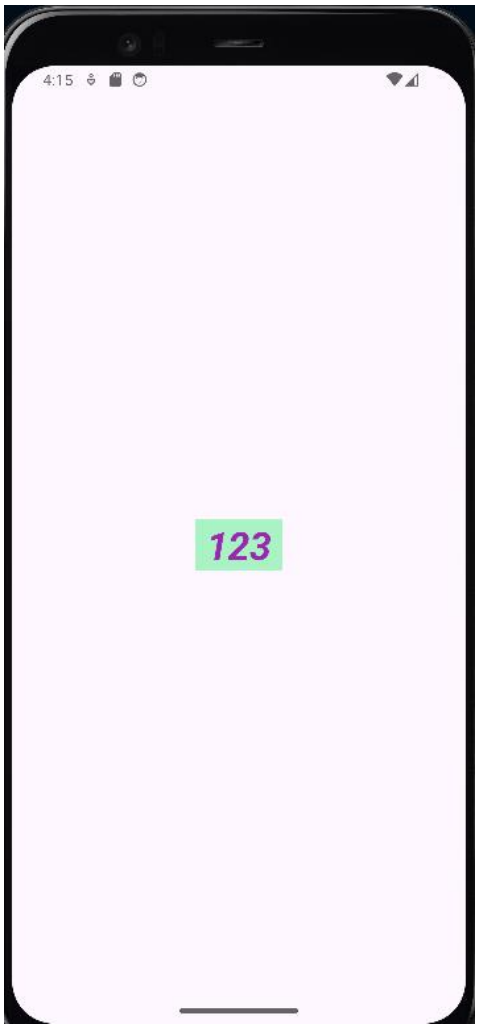
activity_main.xml × colors.xml × strings.xml × MainActivity.kt × activity_main2.xml × MainA

```kotlin
package com.onlylose.testprojectpractice1

import ...

class MainActivity : AppCompatActivity() {
    val btn:Button = findViewById(R.id.button)
    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
        }
        btn.setOnClickListener {
            val intent = Intent( packageContext: this, MainActivity2::class.java)
            startActivity(intent)
        }
    }
}
```

После нажатия кнопки

```
ctivity_main.xml × | colors.xml × | strings.xml × | MainActivity.kt × | activity_main2.xml × | MainActivity2.kt ×

package com.onlylose.testprojectpractice1

import ...

class MainActivity2 : AppCompatActivity() {

    @SuppressLint("MissingInflatedId")
    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())
            v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom)
            insets
        }
        val text: TextView = findViewById(R.id.tv_hello)
        val mes = intent.getStringExtra( name: "text")
        text.text = mes
    }
}
```

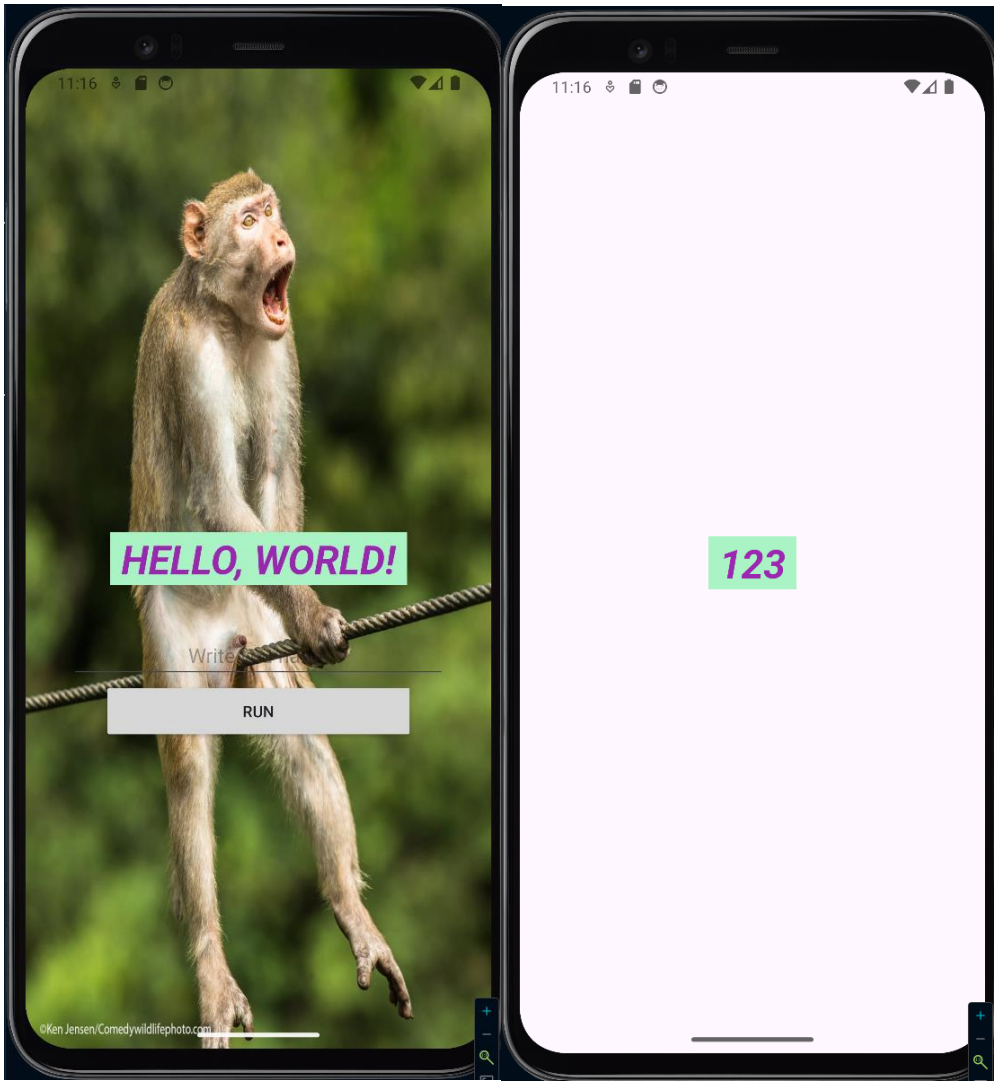
Получаем инт вместо строки:




```
class MainActivity : AppCompatActivity() {
    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
        }
        var btn: Button = findViewById(R.id.buttonIntent)
        btn.setOnClickListener {
            val intent = Intent( packageContext: this, MainActivity2::class.java)
            intent.putExtra( name: "text",  value: 123)
            startActivity(intent)
        }
    }
}
```

```kotlin
import ...


class MainActivity : AppCompatActivity() {
    private lateinit var binding: ActivityMainBinding
    override fun onCreate(savedInstanceState: Bundle?) {
        binding = ActivityMainBinding.inflate(layoutInflater)
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        var view = binding.root
        setContentView(view)
        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
        }
        binding.buttonIntent.setOnClickListener {
            var intent:Intent = Intent( packageContext: this, MainActivity2::class.java)
            intent.putExtra( name: "text",  value: 123)
            startActivity(intent)
        }
    }
}
```

```kotlin
import ...


class MainActivity2 : AppCompatActivity() {
    private lateinit var binding: ActivityMain2Binding
    @SuppressLint("MissingInflatedId")
    override fun onCreate(savedInstanceState: Bundle?) {
        binding = ActivityMain2Binding.inflate(layoutInflater)
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        var view = binding.root
        setContentView(view)
        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
        }
        binding.tvHello.text = intent.getIntExtra( name: "text",  defaultValue: 0).toString()
    }
}
```



Как я понял, отличие findViewById и ViewBinding в том, что viewbinding более защищенный при компиляции и он быстрее загружает, если много данных (id)