

Листинг программы

```
package com.red.bchcalc

import android.os.Bundle
import androidx.activity.enableEdgeToEdge
import androidx.appcompat.app.AppCompatActivity
import androidx.core.content.ContextCompat
import androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat
import com.red.bchcalc.databinding.ActivityMainBinding
import net.objecthunter.exp4j.ExpressionBuilder
import java.text.DecimalFormat

class MainActivity : AppCompatActivity() {
    lateinit var binding: ActivityMainBinding

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        binding = ActivityMainBinding.inflate(layoutInflater)
        setContentView(binding.root)

        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.buttonClear.setOnClickListener{
            binding.input.text = " "
            binding.output.text = " "
        }

        binding.buttonBracketLeft.setOnClickListener {
            addToInputText("(")
        }
    }
}
```

```
binding.buttonBracketRight.setOnClickListener {
    addToInputText("")
}
binding.button0.setOnClickListener {
    addToInputText("0")
}
binding.button1.setOnClickListener {
    addToInputText("1")
}
binding.button2.setOnClickListener {
    addToInputText("2")
}
binding.button3.setOnClickListener {
    addToInputText("3")
}
binding.button4.setOnClickListener {
    addToInputText("4")
}
binding.button5.setOnClickListener {
    addToInputText("5")
}
binding.button6.setOnClickListener {
    addToInputText("6")
}
binding.button7.setOnClickListener {
    addToInputText("7")
}
binding.button8.setOnClickListener {
    addToInputText("8")
}
binding.button9.setOnClickListener {
    addToInputText("9")
}
```

```

    }

    binding.buttonDot.setOnClickListener {
        addToInputText(".")
    }

    binding.buttonDivision.setOnClickListener {
        addToInputText("/")
    }

    binding.buttonMultiply.setOnClickListener {
        addToInputText("*")
    }

    binding.buttonSubtraction.setOnClickListener {
        addToInputText("-")
    }

    binding.buttonAddition.setOnClickListener {
        addToInputText("+")
    }

    binding.buttonEquals.setOnClickListener {
        showResult()
    }

    binding.buttonPercent.setOnClickListener {
        addToInputText("%")
    }
}

```

```

private fun addToInputText(value: String) {
    binding.input.append(value)
}

```

```

private fun getInputExpression(): String {
    return binding.input.text.toString()
}

```

```

private fun showResult() {
    try {
        val expression = getInputExpression().replace("%", "/100")
        val result = ExpressionBuilder(expression).build().evaluate()
        binding.output.text =
            DecimalFormat("0.#####").format(result).toString()
        binding.output.setTextColor(
            ContextCompat.getColor(this,
                R.color.neon_green))
    } catch (e: Exception) {
        binding.output.text = "Ошибка"
        binding.output.setTextColor(ContextCompat.getColor(this,
            R.color.red))
    }
}
}
}

```

Работа приложения

