

activity_main.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/main"
    android:layout_width="match_parent"    android:layout_height="match_parent"
    android:background="@color/black"    tools:context=".MainActivity">

    <LinearLayout
        android:layout_width="match_parent"    android:layout_height="wrap_content"
        android:orientation="vertical"
        app:layout_constraintBottom_toTopOf="@+id/tableLayout"
        app:layout_constraintEnd_toEndOf="parent"    android:padding="18dp">

        <TextView
            style="@style/Calc_Text_Input"    android:layout_width="match_parent"
            android:layout_height="wrap_content"    android:text="2+2"
            android:id="@+id/text_input"/>

        <TextView
            style="@style/Calc_Text_Answer"    android:layout_width="match_parent"
            android:layout_height="wrap_content"    android:text="4"
            android:id="@+id/text_answer"/>

    </LinearLayout>

    <TableLayout
        android:layout_width="408dp"    android:layout_height="450dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent"    android:id="@+id/tableLayout">

        <TableRow>

            <androidx.appcompat.widget.AppCompatButton
                android:id="@+id/button_delete"    style="@style/Calc_Button_Delete"
                android:text="Del" />

            <androidx.appcompat.widget.AppCompatButton
                android:id="@+id/button_bracket_open"    style="@style/Calc_Button_Action"
                android:text="(" />

        </TableRow>

    </TableLayout>

</androidx.constraintlayout.widget.ConstraintLayout>
```

```
        <androidx.appcompat.widget.AppCompatButton
android:id="@+id/button_bracket_closed"          style="@style/Calc_Button_Action"
android:text=")" />

        <androidx.appcompat.widget.AppCompatButton
android:id="@+id/button_division"                style="@style/Calc_Button_Action"
android:text="/" />

    </TableRow>

    <TableRow>

        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_seven"          style="@style/Calc_Button_Digit"
android:text="7" />

        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_eight"          style="@style/Calc_Button_Digit"
android:text="8" />

        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_nine"           style="@style/Calc_Button_Digit"
android:text="9" />

        <androidx.appcompat.widget.AppCompatButton
android:id="@+id/button_multiplication"          style="@style/Calc_Button_Action"
android:text="*" />

    </TableRow>

    <TableRow>

        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_four"          style="@style/Calc_Button_Digit"
android:text="4" />

        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_five"          style="@style/Calc_Button_Digit"
android:text="5" />

        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_six"           style="@style/Calc_Button_Digit"
android:text="6" />

        <androidx.appcompat.widget.AppCompatButton
```



```
        android:id="@+id/button_subtraction"                style="@style/Calc_Button_Action"
        android:text="-" />

    </TableRow>

    <TableRow>

        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_one"                    style="@style/Calc_Button_Digit"
            android:text="1" />

        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_two"                    style="@style/Calc_Button_Digit"
            android:text="2" />

        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_three"                  style="@style/Calc_Button_Digit"
            android:text="3" />

        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_addition"                style="@style/Calc_Button_Action"
            android:text="+" />

    </TableRow>

    <TableRow>

        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_ac"                    style="@style/Calc_Button_Delete"
            android:text="AC" />

        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_zero"                  style="@style/Calc_Button_Digit"
            android:text="0" />

        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_point"                  style="@style/Calc_Button_Digit"
            android:text="." />

        <androidx.appcompat.widget.AppCompatButton
            android:id="@+id/button_equality"                style="@style/Calc_Button_Action"
            android:text="=" />

    </TableRow>

</TableLayout>
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

activity_splash.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    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:layout_width="match_parent"    android:layout_height="match_parent"
    android:fitsSystemWindows="true"
    tools:context=".Splash">

    <androidx.constraintlayout.widget.ConstraintLayout
        android:layout_width="match_parent"    android:layout_height="match_parent">

        <ImageView
            android:id="@+id/imageView2"    android:layout_width="189dp"
            android:layout_height="207dp"
            app:layout_constraintBottom_toBottomOf="parent"    app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.5"    app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"    app:layout_constraintVertical_bias="0.5"
            app:srcCompat="@drawable/splash" />

        <TextView
            android:id="@+id/textView"    android:layout_width="wrap_content"
            android:layout_height="wrap_content"    android:text="Calculator"
            android:textSize="24sp"
            app:layout_constraintBottom_toTopOf="@+id/imageView2"
            app:layout_constraintEnd_toEndOf="parent"    app:layout_constraintHorizontal_bias="0.5"
            app:layout_constraintStart_toStartOf="parent" />
    </androidx.constraintlayout.widget.ConstraintLayout>
</androidx.coordinatorlayout.widget.CoordinatorLayout>
```

MainActivity.kt

```
package com.example.calc3

import android.annotation.SuppressLint
import android.graphics.Color
import android.os.Bundle
import android.os.Bundle
import android.os.Bundle
import android.view.View
```

```

import androidx.activity.enableEdgeToEdge import
androidx.appcompat.app.AppCompatActivity import
androidx.core.view.ViewCompat import
androidx.core.view.WindowInsetsCompat
import com.example.calc3.databinding.ActivityMainBinding import
net.objecthunter.exp4j.Expression import
net.objecthunter.exp4j.ExpressionBuilder

class MainActivity : AppCompatActivity() {

    private lateinit var binding : ActivityMainBinding

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState) enableEdgeToEdge()
        binding = ActivityMainBinding.inflate(layoutInflater) val 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.buttonZero.setOnClickListener { addToInput("0")
        }

        binding.buttonOne.setOnClickListener { addToInput("1")
        }

        binding.buttonTwo.setOnClickListener { addToInput("2")
        }

        binding.buttonThree.setOnClickListener { addToInput("3")
        }

        binding.buttonFour.setOnClickListener { addToInput("4")
        }

        binding.buttonFive.setOnClickListener { addToInput("5")
        }

        binding.buttonSix.setOnClickListener { addToInput("6")
        }
    }
}

```



```
binding.buttonSeven.setOnClickListener {      addToInput("7")
}

binding.buttonEight.setOnClickListener {      addToInput("8")
}

binding.buttonNine.setOnClickListener {      addToInput("9")
}

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

binding.buttonMultiplication.setOnClickListener {    addToInput("*")
}

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

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

binding.buttonBracketOpen.setOnClickListener {    addToInput("(")
}

binding.buttonBracketClosed.setOnClickListener{    addToInput(")")
}

binding.buttonPoint.setOnClickListener { addToInput(".") }

binding.buttonEquality.setOnClickListener {      equal()
}

binding.buttonDelete.setOnClickListener {      delete()
}

binding.buttonAc.setOnClickListener {      ac()
}
}
private fun ac() {
    binding.textInput.text = ""
    updateAnswer()
}
```



```

    private fun delete() {        binding.textInput.text =
binding.textInput.text.toString().substring(0, binding.textInput.text.toString().length-1)
updateAnswer()
    }
    private fun equal(): View.OnClickListener? {
        binding.textInput.text = binding.textAnswer.text.toString()        return null
    }

    @SuppressWarnings("SetTextI18n")
    private fun addToInput(s: String): View.OnClickListener? {        binding.textInput.append(s)
        updateAnswer()        return null
    }
    private fun getInputExpression() : String {        return
binding.textInput.text.toString()
    }
    private fun updateAnswer() {        try {
        val expression = getInputExpression()
        val result = ExpressionBuilder(expression).build().evaluate()        binding.textAnswer.text =
DecimalFormat("0.#####").format(result).toString()
    } catch (e: Exception) {
        binding.textAnswer.text = "";
    }
    println(binding.textInput.text)        println(binding.textAnswer.text)
    }
}

```

16:47



2+2

4

DEL

(

)

/

7

8

9

*

4

5

6

-

1

2

3

+

AC

0

.

=