#activity_main.xml

```
1. <?xml version="1.0" encoding="utf-8"?>

    <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.androi</li>

   d.com/apk/res/android"
3.
        xmlns:app="http://schemas.android.com/apk/res-auto"
4.
        xmlns:tools="http://schemas.android.com/tools"
5.
        android:layout width="match parent"
6.
        android:layout_height="match_parent"
7.
        tools:context=".MainActivity">
8.
9.
        <TextView
10.
           android:id="@+id/appName"
11.
            style="@style/text_style"
12.
            android:layout_marginTop="48dp"
            android:text="@string/app_title"
13.
14.
            app:layout_constraintLeft_toLeftOf="parent"
            app:layout_constraintRight_toRightOf="parent"
15.
16.
            app:layout_constraintTop_toTopOf="parent" />
17.
18.
        <Button
            android:id="@+id/addBtn"
19.
20.
            android:layout width="wrap content"
21.
            android:layout_height="wrap_content"
22.
            android:layout marginStart="16dp"
23.
            android:background="#8BC34A"
24.
            android:fontFamily="@font/roboto mono"
25.
            android:paddingStart="@dimen/btn_pad"
26.
            android:paddingEnd="@dimen/btn_pad"
27.
            android:text="@string/add_btn_txt"
28.
            android:textSize="18sp"
29.
            android:textStyle="bold"
30.
            app:layout constraintBaseline toBaselineOf="@+id/prodBtn"
31.
            app:layout_constraintEnd_toStartOf="@+id/prodBtn"
32.
            app:layout constraintHorizontal bias="0.5"
33.
            app:layout constraintStart_toStartOf="parent" />
34.
35.
        <Button
36.
            android:id="@+id/prodBtn"
37.
            android:layout width="wrap content"
            android:layout_height="wrap_content"
38.
39.
            android:layout marginStart="@dimen/margin wide"
40.
            android:layout marginTop="50dp"
41.
            android:layout marginEnd="@dimen/margin wide"
42.
            android:background="#8BC34A"
43.
            android:fontFamily="@font/roboto mono"
44.
            android:paddingStart="@dimen/btn pad"
45.
            android:paddingEnd="@dimen/btn pad"
46.
            android:text="@string/prod btn txt"
47.
            android:textSize="18sp"
            android:textStyle="bold"
48.
49.
            app:layout_constraintEnd_toStartOf="@+id/modBtn"
50.
            app:layout_constraintHorizontal_bias="0.5"
            app:layout_constraintStart_toEndOf="@+id/addBtn"
51.
            app:layout_constraintTop_toBottomOf="@+id/num1_input" />
52.
53.
54.
        <Button
55.
            android:id="@+id/modBtn"
56.
            android:layout_width="wrap_content"
```

```
57.
            android:layout_height="wrap_content"
58.
            android:layout_marginEnd="@dimen/margin_wide"
            android:background="#8BC34A"
59.
60.
            android:fontFamily="@font/roboto_mono"
61.
            android:paddingStart="@dimen/btn_pad"
            android:paddingEnd="@dimen/btn pad"
62.
            android:text="@string/mod btn txt"
63.
64.
            android:textSize="18sp"
            android:textStyle="bold"
65.
66.
            app:layout constraintBaseline toBaselineOf="@+id/prodBtn"
67.
            app:layout constraintEnd toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.5"
68.
69.
            app:layout_constraintStart_toEndOf="@+id/prodBtn" />
70.
71.
        <EditText
72.
            android:id="@+id/num2_input"
73.
            style="@style/text_style"
74.
            android:layout_width="213dp"
75.
            android:layout_height="wrap_content"
            android:layout_marginStart="@dimen/margin_wide"
76.
77.
            android:layout_marginTop="50dp"
78.
            android:layout marginEnd="@dimen/margin wide"
79.
            android:ems="10"
80.
            android:hint="@string/hint num2"
            android:inputType="textPersonName"
81.
            app:layout_constraintEnd_toEndOf="parent"
82.
            app:layout_constraintStart_toStartOf="parent"
83.
            app:layout constraintTop toBottomOf="@+id/prodBtn" />
84.
85.
        <EditText
86.
            android:id="@+id/num1 input"
87.
88.
            style="@style/text style"
            android:layout_width="213dp"
89.
            android:layout_height="wrap_content"
90.
            android:layout marginStart="@dimen/margin wide"
91.
            android:layout_marginTop="104dp"
92.
93.
            android:layout_marginEnd="@dimen/margin_wide"
94.
            android:ems="10"
95.
            android:hint="@string/hint num1"
96.
            android:inputType="textPersonName"
97.
            app:layout constraintEnd toEndOf="parent"
98.
            app:layout constraintStart toStartOf="parent"
99.
            app:layout constraintTop toBottomOf="@+id/appName" />
100.
               <TextView
101.
102.
                    android:id="@+id/result"
103.
                    style="@style/text style"
104.
                    android:layout width="wrap content"
105.
                    android:layout height="wrap content"
106.
                    android:layout marginTop="50dp"
107.
                    android:hint="@string/hint res"
108.
                    android:paddingStart="@dimen/margin wide"
109.
                    android:paddingEnd="@dimen/margin wide"
110.
                    app:layout constraintEnd toEndOf="parent"
111.
                    app:layout constraintHorizontal bias="0.503"
                    app:layout_constraintStart_toStartOf="parent"
112.
113.
                    app:layout constraintTop toBottomOf="@+id/num2 input" />
114.
115.
           </androidx.constraintlayout.widget.ConstraintLayout>
```

#activity_main.kt

```
1. package com.example.basixcalculator
import androidx.appcompat.app.AppCompatActivity
4. import android.os.Bundle
import android.view.View
import android.widget.Button
7. import android.widget.EditText
8. import android.widget.TextView
10. class MainActivity : AppCompatActivity() {
11.
       lateinit var num1:EditText
12.
       lateinit var num2:EditText
13.
       lateinit var res:TextView
14.
       override fun onCreate(savedInstanceState: Bundle?) {
15.
16.
            super.onCreate(savedInstanceState)
17.
            setContentView(R.layout.activity_main)
18.
19.
            num1 = findViewById<EditText>(R.id.num1 input)
            num2 = findViewById<EditText>(R.id.num2_input)
20.
21.
            res = findViewById<TextView>(R.id.result)
22.
23.
            addListener()
24.
25.
26.
       private fun calculate(view: View){
27.
            val num1Txt = num1.text.toString().toInt()
28.
            val num2Txt = num2.text.toString().toInt()
29.
30.
            when(view.id){
31.
                R.id.addBtn -> res.text = "Equals ${num1Txt+num2Txt}"
                R.id.prodBtn -> res.text = "Equals ${num1Txt * num2Txt}"
32.
33.
                else -> res.text = "Equals ${num1Txt % num2Txt}"
34.
35.
36.
       private fun addListener(){
37.
            val addBtn = findViewById<Button>(R.id.addBtn)
38.
            val prodBtn = findViewById<Button>(R.id.prodBtn)
39.
            val modBtn = findViewById<Button>(R.id.modBtn)
40.
41.
            val operations: List<View> = listOf(addBtn, prodBtn, modBtn)
42.
43.
            for(opr in operations)
44.
                opr.setOnClickListener{ calculate(it) }
45.
46.
47. }
```

#Snapshots

