Calculator App

MainActivity.kt

```kotlin
package com.example.examcalculator

import android.os.Bundle

import android.view.View

import android.widget.AdapterView

import android.widget.ArrayAdapter

import android.widget.Button

import android.widget.EditText

import android.widget.Spinner

import android.widget.TextView

import androidx.activity.enableEdgeToEdge

import androidx.appcompat.app.AppCompatActivity

import androidx.core.view.ViewCompat

import androidx.core.view.WindowInsetsCompat

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity_main)
        var inputnum1: EditText = findViewById(R.id.inputnum1)
        var inputnum2: EditText = findViewById(R.id.inputnum2)
        var spinner: Spinner = findViewById(R.id.spinner)
```

```kotlin
var calcbtn: Button = findViewById(R.id.calcbtn)

var result: TextView = findViewById(R.id.result)


var options = arrayOf("addition","subtraction","multiplication","division")

spinner.adapter = ArrayAdapter<String>(this, android.R.layout.simple_list_item_1,options)


var flag="addition"

spinner.onItemSelectedListener = object: AdapterView.OnItemSelectedListener{

    override fun onItemSelected(p0: AdapterView<*>?, p1: View?, p2: Int, p3: Long){

        flag = options.get(p2)

    }


    override fun onNothingSelected(p0: AdapterView<*>?){


    }
}


calcbtn.setOnClickListener{

    var x = inputnum1.text.toString().toDouble()

    var y = inputnum2.text.toString().toDouble()

    var out=0.0


    when(flag){

        "addition" -> {


            out = x+y

            result.text = "Result: " + out.toString()


        }
```

```
        "subtraction" -> {


            out = x-y

            result.text = "Result: " + out.toString()


        }
        "multiplication" -> {


            out = x*y

            result.text = "Result: " + out.toString()


        }
        else ->{


            out = x/y

            result.text = "Result: " + out.toString()


        }


    }
  }
 }
}
```

Activity_main.xml

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

<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
```

```xml
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"

tools:context=".MainActivity">


<EditText

    android:id="@+id/inputnum1"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:ems="10"

    android:hint="Enter Number 1"

    android:inputType="number"

    app:layout_constraintBottom_toBottomOf="parent"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintHorizontal_bias="0.497"

    app:layout_constraintStart_toStartOf="parent"

    app:layout_constraintTop_toTopOf="parent"

    app:layout_constraintVertical_bias="0.23" />


<Button

    android:id="@+id/calcbtn"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:text="Calculate"

    app:layout_constraintBottom_toBottomOf="parent"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintHorizontal_bias="0.501"
```

```xml
        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.598" />


    <EditText

        android:id="@+id/inputnum2"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:ems="10"

        android:hint="Enter Number 2"

        android:inputType="number"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.497"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.36" />


    <TextView

        android:id="@+id/result"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Result:"

        android:textSize="24sp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.502"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"
```

```xml
        app:layout_constraintVertical_bias="0.69" />


    <Spinner

        android:id="@+id/spinner"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.498"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.468" />


    <TextView

        android:id="@+id/textView3"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Calculator App"

        android:textSize="34sp"

        android:textStyle="bold"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.498"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.05" />


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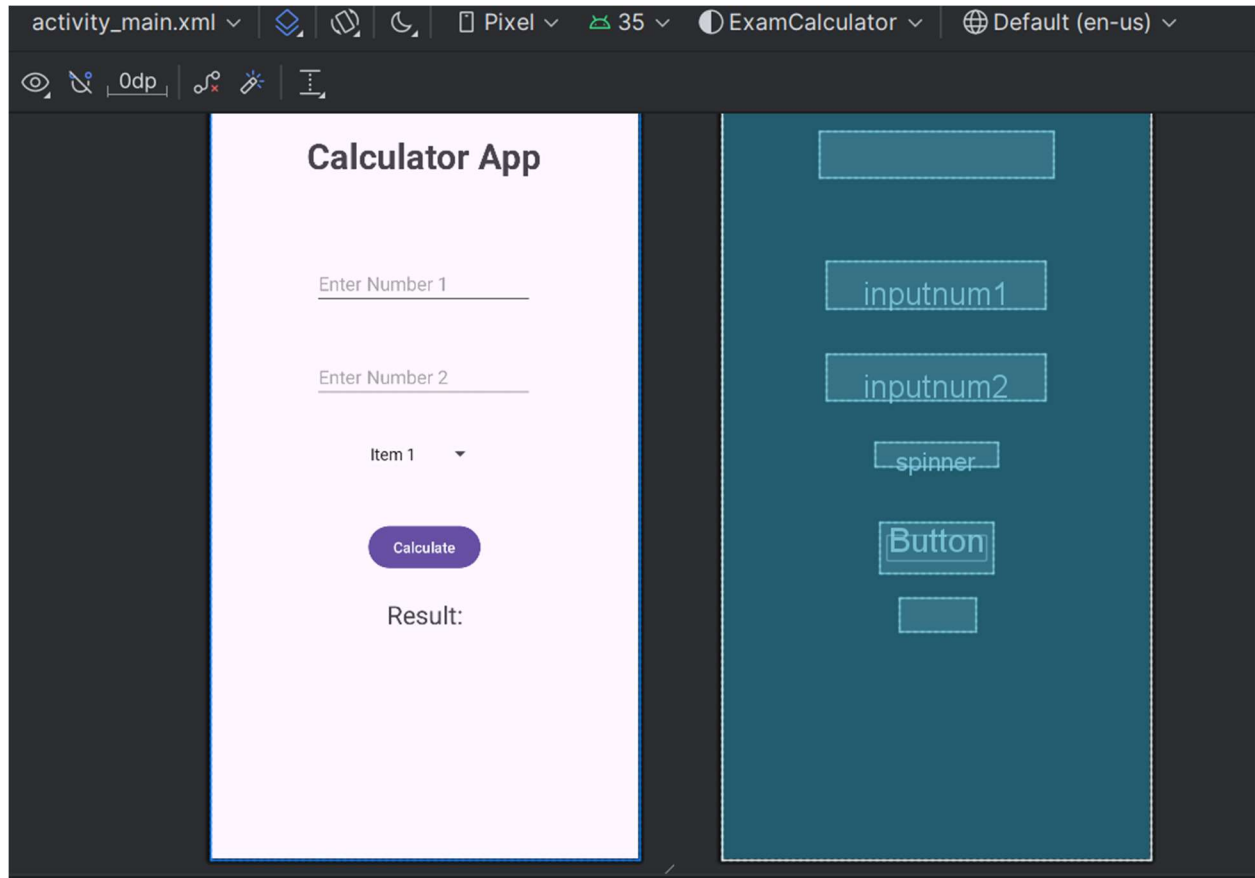
Screenshots

Design

Output

Calculator App

30

10

addition ▾

Calculate

Result: 40.0

Calculator App

30

10

division ▾

Calculate

Result: 3.0

Calculator App

30

10

multiplication ▾

Calculate

Result: 300.0

Calculator App

30

10

subtraction ▾

Calculate

Result: 20.0