```
package com.example.myapplication;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
   @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        final Button btn1 = (Button) findViewById(R.id.btn1);
        btn1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                EditText editText = (EditText) findViewById(R.id.editText);
                editText.setText(editText.getText().toString() + "1");
            }
        });
//Button 2
        final Button btn2 = (Button) findViewById(R.id.btn2);
        btn2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                EditText editText = (EditText) findViewById(R.id.editText);
                editText.setText(editText.getText().toString() + "2");
        });
        //Button 3
        final Button btn3 = (Button) findViewById(R.id.btn3);
        btn3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                EditText editText = (EditText) findViewById(R.id.editText);
                editText.setText(editText.getText().toString() + "3");
        });
//Button 4
        final Button btn4 = (Button) findViewById(R.id.btn4);
        btn4.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                EditText editText = (EditText) findViewById(R.id.editText);
                editText.setText(editText.getText().toString() + "4");
        });
        final Button btn5 = (Button) findViewById(R.id.btn5);
        btn5.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
```

```
EditText editText = (EditText) findViewById(R.id.editText);
                editText.setText(editText.getText().toString() + "5");
        });
//Button 6
        final Button btn6 = (Button) findViewById(R.id.btn6);
        btn6.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                EditText editText = (EditText) findViewById(R.id.editText);
                editText.setText(editText.getText().toString() + "6");
        });
        //Button 7
        final Button btn7 = (Button) findViewById(R.id.btn7);
        btn7.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                EditText editText = (EditText) findViewById(R.id.editText);
                editText.setText(editText.getText().toString() + "7");
            }
        });
//Button 8
        final Button btn8 = (Button) findViewById(R.id.btn8);
        btn8.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                EditText editText = (EditText) findViewById(R.id.editText);
                editText.setText(editText.getText().toString() + "8");
        });
        //Button 9
        final Button btn9 = (Button) findViewById(R.id.btn9);
        btn9.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                EditText editText = (EditText) findViewById(R.id.editText);
                editText.setText(editText.getText().toString() + "9");
        });
//Button 0
        final Button btn0 = (Button) findViewById(R.id.btn0);
        btn0.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                EditText editText = (EditText) findViewById(R.id.editText);
                editText.setText(editText.getText().toString() + "0");
            }
        });
    }
}
```

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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"
    tools:context=".MainActivity">
    <Button
        android:id="@+id/btn5"
        android:layout width="70dp"
        android:layout height="55dp"
        android:background="#F3E5F5"
        android:inputType="number"
        android:text="5"
        android:textSize="18sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.381"
        app:layout_constraintStart_toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout_constraintVertical_bias="0.457" />
    <Button
        android:id="@+id/btnc"
        android:layout width="70dp"
        android:layout height="55dp"
        android:background="#F44A4A"
        android:text="C"
        android:textSize="18sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.621"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.655" />
    <Button
        android:id="@+id/btn4"
        android:layout width="70dp"
        android:layout_height="55dp"
        android:background="#F3E5F5"
        android:inputType="number"
        android:text="4"
        android:textSize="18sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.14"
        app:layout constraintStart toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.457" />
    <Button
        android:id="@+id/btn7"
        android:lavout width="70dp"
        android:layout_height="55dp"
        android:background="#F3E5F5"
        android:inputType="number"
```

```
android:text="7"
    android:textSize="18sp"
    app:layout constraintBottom toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.14"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout constraintVertical bias="0.557" />
<Button
    android:id="@+id/btn2"
    android:layout width="70dp"
    android:layout height="55dp"
    android:background="#F3E5F5"
    android:inputType="number"
    android:text="2"
    android:textSize="18sp"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.384"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.36" />
<Button
    android:id="@+id/btn9"
    android:layout_width="70dp"
    android:layout_height="55dp"
    android:background="#F3E5F5"
    android:inputType="number"
    android:text="9"
    android:textSize="18sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.621"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout_constraintVertical_bias="0.557" />
<Button
    android:id="@+id/btn0"
    android:layout_width="70dp"
    android:layout height="55dp"
    android:background="#F3E5F5"
    android:inputType="number"
    android:text="0"
    android:textSize="18sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.14"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.655" />
<Button
    android:id="@+id/btnEq"
    android:layout width="70dp"
    android:layout_height="55dp"
    android:background="#61F129"
```

```
android:text="="
    android:textSize="18sp"
    app:layout constraintBottom toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.375"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout constraintVertical bias="0.655" />
<Button
    android:id="@+id/btn6"
    android:layout width="70dp"
    android:layout height="55dp"
    android:background="#F3E5F5"
    android:inputType="number"
    android:text="6"
    android:textSize="18sp"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.621"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.457" />
<Button
    android:id="@+id/btn8"
    android:layout_width="70dp"
    android:layout_height="55dp"
    android:background="#F3E5F5"
    android:inputType="number"
    android:text="8"
    android:textSize="18sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.375"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout_constraintVertical_bias="0.557" />
<Button
    android:id="@+id/btn1"
    android:layout_width="70dp"
    android:layout height="55dp"
    android:background="#F3E5F5"
    android:inputType="number"
    android:text="1"
    android:textSize="18sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.14"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout constraintVertical bias="0.36" />
<Button
    android:id="@+id/btn3"
    android:layout width="70dp"
    android:layout_height="55dp"
    android:background="#F3E5F5"
```

```
android:inputType="number"
    android:text="3"
    android:textSize="18sp"
    app:layout constraintBottom toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.621"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout constraintVertical bias="0.36" />
<Button
    android:id="@+id/btnAdd"
    android:layout width="70dp"
    android:layout height="55dp"
    android:background="#E3F2FD"
    android:text="+"
    android:textSize="24sp"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.894"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.359" />
<Button
    android:id="@+id/btnSub"
    android:layout width="70dp"
    android:layout height="55dp"
    android:background="#EDC17B"
    android:text="-"
    android:textSize="24sp"
    app:layout constraintBottom toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.894"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.457" />
<Button
    android:id="@+id/btnDivi"
    android:layout width="70dp"
    android:layout_height="55dp"
    android:background="#FFEBEE"
    android:text="/"
    android:textSize="24sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.894"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout_constraintVertical_bias="0.557" />
<Button
    android:id="@+id/btnMult"
    android:layout width="70dp"
    android:layout height="55dp"
    android:background="#EDE7F6"
    android:text="*"
    android:textSize="24sp"
```

```
app:layout constraintBottom toBottomOf="parent"
   app:layout_constraintEnd_toEndOf="parent"
   app:layout_constraintHorizontal_bias="0.894"
   app:layout_constraintStart_toStartOf="parent"
   app:layout_constraintTop_toTopOf="parent"
   app:layout_constraintVertical_bias="0.655" />
<EditText
   android:id="@+id/editText"
   android:layout width="263dp"
   android:layout_height="79dp"
   android:autoText="false"
   android:background="#FFFFFF"
   android:ems="10"
   android:hint="Result"
   android:inputType="number"
   android:paddingLeft="20dp"
   android:textColor="#EF0B0B"
   android:textSize="36sp"
   android:typeface="normal"
   app:layout constraintBottom toBottomOf="parent"
   app:layout_constraintEnd_toEndOf="parent"
   app:layout_constraintHorizontal_bias="0.496"
   app:layout_constraintStart_toStartOf="parent"
   app:layout constraintTop toTopOf="parent"
   app:layout_constraintVertical_bias="0.218" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

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