
Experiment No.: 6

Aim

Design a simple Calculator using GridLayout and Cascaded LinearLayout

CO2

Write simple programs and develop small applications using the concepts of UI design, layouts and preferences

Procedure

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

<LinearLayout 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:orientation="vertical"
    tools:context=".MainActivity">

    <LinearLayout
        android:layout_width="match_parent"
        android:orientation="vertical"
        android:layout_height="wrap_content">

        <EditText
            android:id="@+id/display"
            android:layout_width="402dp"
            android:layout_height="85dp"
            android:layout_weight="1"
            android:ems="10"
            android:inputType="textPersonName"
            android:text="0"
```

```
tools:ignore="MissingConstraints"
tools:layout_editor_absoluteX="0dp"
tools:layout_editor_absoluteY="-1dp" />
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
    <Button
        android:id="@+id/btn7"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_weight="0.25"
        android:text="7"
        tools:layout_editor_absoluteX="55dp"
        tools:layout_editor_absoluteY="84dp" />
    <Button
        android:id="@+id/btn8"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_weight="0.25"
        android:text="8" />
    <Button
        android:id="@+id/btn9"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_weight="0.25"
        android:text="9" />
    <Button
```

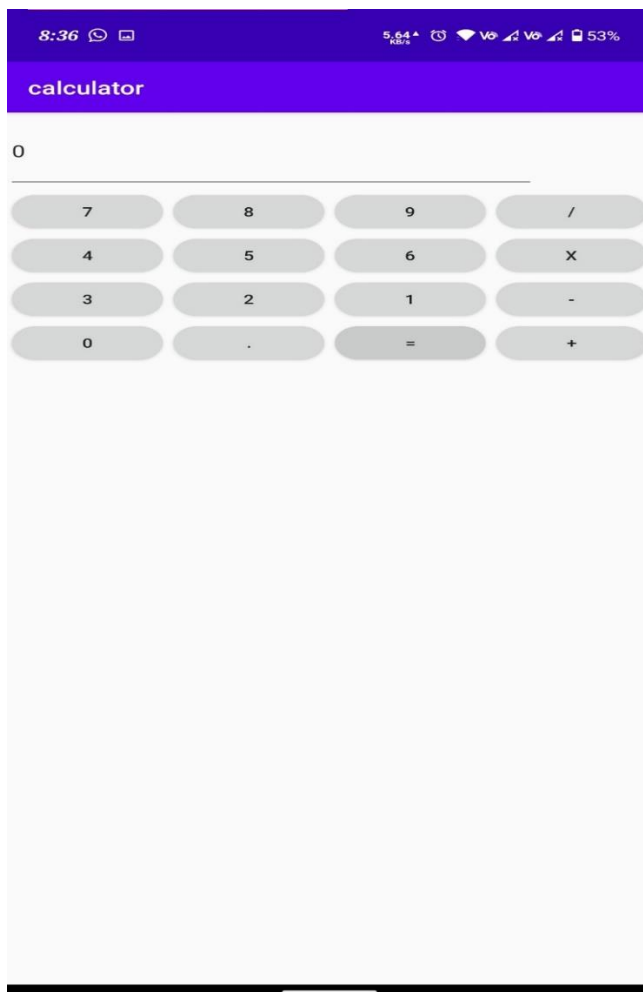
```
        android:id="@+id/btndiv"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_weight="0.25"
        android:text="/" />
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
    <Button
        android:id="@+id/btn4"
        android:layout_width="0dp"
        android:layout_weight="0.25"
        android:layout_height="wrap_content"
        android:text="4" />
    <Button
        android:id="@+id/btn5"
        android:layout_width="0dp"
        android:layout_weight="0.25"
        android:layout_height="wrap_content"
        android:text="5" />
    <Button
        android:id="@+id/btn6"
        android:layout_width="0dp"
        android:layout_weight="0.25"
        android:layout_height="wrap_content"
        android:text="6" />
    <Button
```

```
        android:id="@+id/btnmult"
        android:layout_width="0dp"
        android:layout_weight="0.25"
        android:layout_height="wrap_content"
        android:text="x" />
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
    <Button
        android:id="@+id/btn3"
        android:layout_width="0dp"
        android:layout_weight="0.25"
        android:layout_height="wrap_content"
        android:text="3" />
    <Button
        android:id="@+id/btn2"
        android:layout_width="0dp"
        android:layout_weight="0.25"
        android:layout_height="wrap_content"
        android:text="2" />
    <Button
        android:id="@+id/btn1"
        android:layout_width="0dp"
        android:layout_weight="0.25"
        android:layout_height="wrap_content"
        android:text="1" />
    <Button
```

```
        android:id="@+id/btnminus"
        android:layout_width="0dp"
        android:layout_weight="0.25"
        android:layout_height="wrap_content"
        android:text="-" />
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
    <Button
        android:id="@+id/btn0"
        android:layout_width="0dp"
        android:layout_weight="0.25"
        android:layout_height="wrap_content"
        android:text="0" />
    <Button
        android:id="@+id/btndot"
        android:layout_width="0dp"
        android:layout_weight="0.25"
        android:layout_height="wrap_content"
        android:text="." />
    <Button
        android:id="@+id/btnequ"
        android:layout_width="0dp"
        android:layout_weight="0.25"
        android:layout_height="wrap_content"
        android:text="=" />
    <Button
```

```
        android:id="@+id/btnplus"
        android:layout_width="0dp"
        android:layout_weight="0.25"
        android:layout_height="wrap_content"
        android:text="+" />
    </LinearLayout>
</LinearLayout>
```

Output Screenshot



Result

The program was executed and the result was successfully obtained. Thus CO2 was obtained.