

**MOBILE APPLICATION DEVELOPEMENT LAB****Experiment No.: 8****Aim**

Develop an Android application using controls like Button, TextView, EditText for designing a calculator having basic functionality like Addition, Subtraction, Multiplication, and Division.

**Procedure**

**activity\_main.xml**

**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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:backgroundTint="#B73A53"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/button18"
        android:layout_width="56dp"
        android:layout_height="47dp"
        android:background="#FFEB3B"
        android:text="1"
        android:textAppearance="@style/TextAppearance.AppCompat.Small"
```

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```
tools:layout_editor_absoluteX="47dp"  
tools:layout_editor_absoluteY="361dp" />
```

<Button

```
android:id="@+id/button19"  
android:layout_width="56dp"  
android:layout_height="47dp"  
android:background="#9C27B0"  
android:text="9"  
android:textAppearance="@style/TextAppearance.AppCompat.Small"  
tools:layout_editor_absoluteX="242dp"  
tools:layout_editor_absoluteY="509dp" />
```

<Button

```
android:id="@+id/button20"  
android:layout_width="56dp"  
android:layout_height="47dp"  
android:background="#5A712E"  
android:text="6"  
android:textAppearance="@style/TextAppearance.AppCompat.Small"  
tools:layout_editor_absoluteX="242dp"  
tools:layout_editor_absoluteY="439dp" />
```

<Button

```
android:id="@+id/button21"  
android:layout_width="56dp"  
android:layout_height="47dp"  
android:background="#FF9800"  
android:text="3"  
android:textAppearance="@style/TextAppearance.AppCompat.Small"  
tools:layout_editor_absoluteX="242dp"  
tools:layout_editor_absoluteY="361dp" />
```

<Button

```
    android:id="@+id/button22"
    android:layout_width="56dp"
    android:layout_height="47dp"
    android:background="#9C27B0"
    android:text="8"
    android:textAppearance="@style/TextAppearance.AppCompat.Small"
    tools:layout_editor_absoluteX="148dp"
    tools:layout_editor_absoluteY="509dp" />
```

<Button

```
    android:id="@+id/button23"
    android:layout_width="56dp"
    android:layout_height="47dp"
    android:background="#FFC107"
    android:text="2"
    android:textAppearance="@style/TextAppearance.AppCompat.Small"
    tools:layout_editor_absoluteX="148dp"
    tools:layout_editor_absoluteY="361dp" />
```

<Button

```
    android:id="@+id/button15"
    android:layout_width="56dp"
    android:layout_height="47dp"
    android:background="#00BCD4"
    android:text="AC"
    android:textAppearance="@style/TextAppearance.AppCompat.Small"
    tools:layout_editor_absoluteX="329dp"
    tools:layout_editor_absoluteY="657dp" />
```

<Button

```
android:id="@+id/button16"  
android:layout_width="56dp"  
android:layout_height="47dp"  
android:background="#CDDC39"  
android:text="5"  
android:textAppearance="@style/TextAppearance.AppCompat.Small"  
tools:layout_editor_absoluteX="148dp"  
tools:layout_editor_absoluteY="439dp" />
```

<Button

```
android:id="@+id/button17"  
android:layout_width="56dp"  
android:layout_height="47dp"  
android:background="#CDDC39"  
android:text="7"  
android:textAppearance="@style/TextAppearance.AppCompat.Small"  
tools:layout_editor_absoluteX="47dp"  
tools:layout_editor_absoluteY="509dp" />
```

<Button

```
android:id="@+id/button13"  
android:layout_width="56dp"  
android:layout_height="47dp"  
android:background="#FFEB3B"  
android:text="4"  
android:textAppearance="@style/TextAppearance.AppCompat.Small"  
tools:layout_editor_absoluteX="47dp"  
tools:layout_editor_absoluteY="439dp" />
```

<Button

```
android:id="@+id/button14"  
android:layout_width="56dp"
```

```
android:layout_height="47dp"
android:background="#9C27B0"
android:text="C"
android:textAppearance="@style/TextAppearance.AppCompat.Small"
tools:layout_editor_absoluteX="242dp"
tools:layout_editor_absoluteY="590dp" />
```

<Button

```
android:id="@+id/button12"
android:layout_width="56dp"
android:layout_height="47dp"
android:background="#F44336"
android:text="0"
android:textAppearance="@style/TextAppearance.AppCompat.Small"
tools:layout_editor_absoluteX="47dp"
tools:layout_editor_absoluteY="585dp" />
```

<Button

```
android:id="@+id/button10"
android:layout_width="53dp"
android:layout_height="40dp"
android:background="#FF9800"
android:text="+"
tools:layout_editor_absoluteX="329dp"
tools:layout_editor_absoluteY="509dp" />
```

<Button

```
android:id="@+id/button11"
android:layout_width="53dp"
android:layout_height="42dp"
android:background="#03A9F4"
android:text="/"
```

```
tools:layout_editor_absoluteX="329dp"  
tools:layout_editor_absoluteY="590dp" />
```

<Button

```
android:id="@+id/button9"  
android:layout_width="51dp"  
android:layout_height="43dp"  
android:background="#2196F3"  
android:text="*"   
tools:layout_editor_absoluteX="329dp"  
tools:layout_editor_absoluteY="361dp" />
```

<Button

```
android:id="@+id/button8"  
android:layout_width="50dp"  
android:layout_height="45dp"  
android:background="#FFC107"  
android:text="-"   
tools:layout_editor_absoluteX="329dp"  
tools:layout_editor_absoluteY="439dp" />
```

<Button

```
android:id="@+id/button"  
android:layout_width="54dp"  
android:layout_height="48dp"  
android:background="#E91E63"  
android:text="="   
tools:layout_editor_absoluteX="150dp"  
tools:layout_editor_absoluteY="585dp" />
```

<TextView

```
android:id="@+id/textView"
```

```
android:layout_width="395dp"  
android:layout_height="256dp"  
android:layout_marginTop="84dp"
```

```
app:layout_constraintTop_toTopOf="parent"  
tools:layout_editor_absoluteX="8dp" />
```

```
<TextView
```

```
    android:id="@+id/textView2"  
    android:layout_width="412dp"  
    android:layout_height="88dp"  
    android:background="#673AB7"  
    android:gravity="center"  
    android:text="CALCULATOR"  
    android:textSize="34sp"  
    tools:layout_editor_absoluteX="2dp"  
    tools:layout_editor_absoluteY="-2dp" />
```

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

**OUTPUT**