**ANDROID LAB**

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**Roll No:53**

**Batch: RMCA-B**

**Date:**

**Experiment No.:**

**Aim**

Design a simple calculator,and set properties using .xml file.

**Program**

<?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:background="#8BC34A"

android:backgroundTint="@android:color/darker\_gray"

tools:context=".MainActivity">

<TextView

android:id="@+id/result"

android:layout\_width="401dp"

android:layout\_height="70dp"

android:layout\_marginStart="41dp"

android:layout\_marginEnd="48dp"

android:layout\_marginBottom="528dp"

android:background="@color/white"

android:text=""

android:textColorLink="#673AB7"

android:textSize="25sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.455"

app:layout\_constraintStart\_toStartOf="parent" />

<Button

android:id="@+id/button2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#9C27B0"

android:text="7"

android:textSize="20"

tools:layout\_editor\_absoluteX="5dp"

tools:layout\_editor\_absoluteY="117dp" />

<Button

android:id="@+id/button3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#9C27B0"

android:text="8"

android:textSize="20"

tools:layout\_editor\_absoluteX="106dp"

tools:layout\_editor\_absoluteY="117dp" />

<Button

android:id="@+id/button4"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#9C27B0"

android:text="4"

android:textSize="20"

tools:layout\_editor\_absoluteX="5dp"

tools:layout\_editor\_absoluteY="176dp" />

<Button

android:id="@+id/button5"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#9C27B0"

android:text="5"

android:textSize="20"

tools:layout\_editor\_absoluteX="106dp"

tools:layout\_editor\_absoluteY="176dp" />

<Button

android:id="@+id/button6"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#9C27B0"

android:text="1"

android:textSize="20"

tools:layout\_editor\_absoluteX="5dp"

tools:layout\_editor\_absoluteY="236dp" />

<Button

android:id="@+id/button7"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#9C27B0"

android:text="2"

android:textSize="20"

tools:layout\_editor\_absoluteX="106dp"

tools:layout\_editor\_absoluteY="236dp" />

<Button

android:id="@+id/button8"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#9C27B0"

android:text="9"

android:textSize="20"

tools:layout\_editor\_absoluteX="201dp"

tools:layout\_editor\_absoluteY="117dp" />

<Button

android:id="@+id/button9"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#9C27B0"

android:text="6"

android:textSize="20"

tools:layout\_editor\_absoluteX="201dp"

tools:layout\_editor\_absoluteY="176dp" />

<Button

android:id="@+id/button10"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#9C27B0"

android:backgroundTintMode="add"

android:text="3"

android:textSize="20"

tools:layout\_editor\_absoluteX="201dp"

tools:layout\_editor\_absoluteY="236dp" />

<Button

android:id="@+id/button11"

android:layout\_width="85dp"

android:layout\_height="95dp"

android:backgroundTint="#9C27B0"

android:text="+"

android:textSize="20"

app:strokeColor="#4C2828"

tools:layout\_editor\_absoluteX="310dp"

tools:layout\_editor\_absoluteY="117dp" />

<Button

android:id="@+id/button12"

android:layout\_width="86dp"

android:layout\_height="89dp"

android:backgroundTint="#9C27B0"

android:text="-"

android:textSize="20"

tools:layout\_editor\_absoluteX="310dp"

tools:layout\_editor\_absoluteY="212dp" />

<Button

android:id="@+id/button13"

android:layout\_width="85dp"

android:layout\_height="92dp"

android:backgroundTint="#9C27B0"

android:text="\*"

android:textSize="20"

tools:layout\_editor\_absoluteX="310dp"

tools:layout\_editor\_absoluteY="302dp" />

<Button

android:id="@+id/button14"

android:layout\_width="85dp"

android:layout\_height="82dp"

android:backgroundTint="#9C27B0"

android:text="/"

android:textSize="20"

tools:layout\_editor\_absoluteX="310dp"

tools:layout\_editor\_absoluteY="405dp" />

<Button

android:id="@+id/button15"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#9C27B0"

android:text="0"

android:textSize="20"

tools:layout\_editor\_absoluteX="5dp"

tools:layout\_editor\_absoluteY="293dp" />

<Button

android:id="@+id/button16"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#9C27B0"

android:text="."

android:textSize="20"

tools:layout\_editor\_absoluteX="106dp"

tools:layout\_editor\_absoluteY="293dp" />

<Button

android:id="@+id/button17"

android:layout\_width="85dp"

android:layout\_height="48dp"

android:backgroundTint="#9C27B0"

android:text="="

android:textSize="20"

tools:layout\_editor\_absoluteX="204dp"

tools:layout\_editor\_absoluteY="293dp" />

</androidx.constraintlayout.widget.ConstraintLayout>

Question 1

<?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:background="#8BC34A"

android:backgroundTint="@color/material\_dynamic\_neutral\_variant20"

tools:context=".MainActivity">

<TextView

android:id="@+id/result"

android:layout\_width="401dp"

android:layout\_height="70dp"

android:layout\_marginStart="41dp"

android:layout\_marginEnd="48dp"

android:layout\_marginBottom="528dp"

android:background="@color/material\_dynamic\_neutral99"

android:text=""

android:textColorLink="#A085D1"

android:textSize="25sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.455"

app:layout\_constraintStart\_toStartOf="parent" />

<Button

android:id="@+id/button2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#3F51B5"

android:text="7"

android:textSize="20"

tools:layout\_editor\_absoluteX="5dp"

tools:layout\_editor\_absoluteY="117dp" />

<Button

android:id="@+id/button3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#3F51B5"

android:text="8"

android:textSize="20"

tools:layout\_editor\_absoluteX="106dp"

tools:layout\_editor\_absoluteY="117dp" />

<Button

android:id="@+id/button4"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#3F51B5"

android:text="4"

android:textSize="20"

tools:layout\_editor\_absoluteX="5dp"

tools:layout\_editor\_absoluteY="176dp" />

<Button

android:id="@+id/button5"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#3F51B5"

android:text="5"

android:textSize="20"

tools:layout\_editor\_absoluteX="106dp"

tools:layout\_editor\_absoluteY="176dp" />

<Button

android:id="@+id/button6"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#3F51B5"

android:text="1"

android:textSize="20"

tools:layout\_editor\_absoluteX="5dp"

tools:layout\_editor\_absoluteY="236dp" />

<Button

android:id="@+id/button7"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#3F51B5"

android:text="2"

android:textSize="20"

tools:layout\_editor\_absoluteX="106dp"

tools:layout\_editor\_absoluteY="236dp" />

<Button

android:id="@+id/button8"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#3F51B5"

android:text="9"

android:textSize="20"

tools:layout\_editor\_absoluteX="201dp"

tools:layout\_editor\_absoluteY="117dp" />

<Button

android:id="@+id/button9"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#3F51B5"

android:text="6"

android:textSize="20"

tools:layout\_editor\_absoluteX="201dp"

tools:layout\_editor\_absoluteY="176dp" />

<Button

android:id="@+id/button10"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#3F51B5"

android:backgroundTintMode="add"

android:text="3"

android:textSize="20"

tools:layout\_editor\_absoluteX="201dp"

tools:layout\_editor\_absoluteY="236dp" />

<Button

android:id="@+id/button11"

android:layout\_width="85dp"

android:layout\_height="95dp"

android:backgroundTint="#3F51B5"

android:text="+"

android:textSize="20"

app:strokeColor="#4C2828"

tools:layout\_editor\_absoluteX="310dp"

tools:layout\_editor\_absoluteY="117dp" />

<Button

android:id="@+id/button12"

android:layout\_width="86dp"

android:layout\_height="89dp"

android:backgroundTint="#3F51B5"

android:text="-"

android:textSize="20"

tools:layout\_editor\_absoluteX="310dp"

tools:layout\_editor\_absoluteY="212dp" />

<Button

android:id="@+id/button13"

android:layout\_width="85dp"

android:layout\_height="92dp"

android:backgroundTint="#3F51B5"

android:text="\*"

android:textSize="20"

tools:layout\_editor\_absoluteX="310dp"

tools:layout\_editor\_absoluteY="302dp" />

<Button

android:id="@+id/button14"

android:layout\_width="85dp"

android:layout\_height="82dp"

android:backgroundTint="#3F51B5"

android:text="/"

android:textSize="20"

tools:layout\_editor\_absoluteX="310dp"

tools:layout\_editor\_absoluteY="405dp" />

<Button

android:id="@+id/button15"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#3F51B5"

android:text="0"

android:textSize="20"

tools:layout\_editor\_absoluteX="5dp"

tools:layout\_editor\_absoluteY="293dp" />

<Button

android:id="@+id/button16"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#3F51B5"

android:text="."

android:textSize="20"

tools:layout\_editor\_absoluteX="106dp"

tools:layout\_editor\_absoluteY="293dp" />

<Button

android:id="@+id/button17"

android:layout\_width="85dp"

android:layout\_height="48dp"

android:backgroundTint="#3F51B5"

android:text="="

android:textSize="20"

tools:layout\_editor\_absoluteX="204dp"

tools:layout\_editor\_absoluteY="293dp" />

</androidx.constraintlayout.widget.ConstraintLayout>

**OUTPUT**

