

TIPTOP CALCULATOR

XML

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

    <TextView
        android:id="@+id/result_tv"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_above="@id/buttons_layout"
        android:layout_marginStart="16dp"
        android:layout_marginTop="4dp"
        android:layout_marginEnd="16dp"
        android:layout_marginBottom="8dp"
        android:text=""
        android:textAlignment="textEnd"
        android:textColor="@color/black"
        android:textSize="60dp">

    <LinearLayout
        android:id="@+id/buttons_layout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:background="#151830"
        android:paddingVertical="1dp"
        android:layout_alignParentBottom="true"
    >

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:orientation="horizontal">
```

```
ton"
<com.google.android.material.button.MaterialButton
    android:id="@+id/button_c"
    style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut

    android:layout_width="72dp"
    android:layout_height="72dp"
    android:layout_margin="12dp"
    android:backgroundTint="#600625"
    android:text="c"
    android:textColor="#F8F5F6"
    android:textSize="32dp"
    app:cornerRadius="36dp" />
```

```
ton"
<com.google.android.material.button.MaterialButton
    android:id="@+id/button_open_bracket"
    style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut

    android:layout_width="72dp"
    android:layout_height="72dp"
    android:layout_margin="12dp"
    android:layout_marginStart="12dp"
    android:layout_marginTop="12dp"
    android:layout_marginEnd="12dp"
    android:layout_marginBottom="12dp"
    android:backgroundTint="#43383C"
    android:text="("
    android:textColor="@color/white"
    android:textSize="32dp"
    app:cornerRadius="36dp" />
```

```
ton"
<com.google.android.material.button.MaterialButton
    android:id="@+id/button_close_brack"
    style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut

    android:layout_width="72dp"
    android:layout_height="72dp"
    android:layout_marginStart="12dp"
    android:layout_marginTop="12dp"
    android:layout_marginEnd="12dp"
    android:layout_marginBottom="12dp"
    android:backgroundTint="#43383C"
    android:text=")"
    android:textColor="@color/white"
    android:textSize="32dp"
    app:cornerRadius="36dp" />
```

```

        <com.google.android.material.button.MaterialButton
            android:id="@+id/button_divide"
            style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut
ton"

            android:layout_width="72dp"
            android:layout_height="72dp"
            android:layout_margin="12dp"
            android:backgroundTint="@android:color/holo_orange_dark"
            android:text="/"
            android:textColor="@color/white"
            android:textSize="32dp"
            app:cornerRadius="36dp" />

    </LinearLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:orientation="horizontal">

        <com.google.android.material.button.MaterialButton
            android:id="@+id/button_7"
            style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut
ton"

            android:layout_width="72dp"
            android:layout_height="72dp"
            android:layout_margin="12dp"
            android:text="7 "
            android:textColor="@color/white"
            android:textSize="32dp"
            app:cornerRadius="36dp" />

        <com.google.android.material.button.MaterialButton
            android:id="@+id/button_8"
            style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut
ton"

            android:layout_width="72dp"
            android:layout_height="72dp"
            android:layout_margin="12dp"
            android:text="8"
            android:textColor="@color/white"
            android:textSize="32dp"

```

```

        app:cornerRadius="36dp" />

        <com.google.android.material.button.MaterialButton
            android:id="@+id/button_9"
            style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut
ton"

            android:layout_width="72dp"
            android:layout_height="72dp"
            android:layout_margin="12dp"
            android:text="9"
            android:textColor="@color/white"
            android:textSize="32dp"
            app:cornerRadius="36dp" />

        <com.google.android.material.button.MaterialButton
            android:id="@+id/button_multiply"
            style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut
ton"

            android:layout_width="72dp"
            android:layout_height="72dp"
            android:layout_margin="12dp"
            android:backgroundTint="@android:color/holo_orange_dark"
            android:text="*"
            android:textColor="@color/white"
            android:textSize="32dp"
            app:cornerRadius="36dp" />

    </LinearLayout>
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:orientation="horizontal">

        <com.google.android.material.button.MaterialButton
            android:id="@+id/button_6"
            style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut
ton"

            android:layout_width="72dp"
            android:layout_height="72dp"
            android:layout_margin="12dp"
            android:text="6"
            android:textColor="@color/white"
            android:textSize="32dp"

```

```

        app:cornerRadius="36dp" />

        <com.google.android.material.button.MaterialButton
            android:id="@+id/button_5"
            style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut
ton"

            android:layout_width="72dp"
            android:layout_height="72dp"
            android:layout_margin="12dp"
            android:text="5"
            android:textColor="@color/white"
            android:textSize="32dp"
            app:cornerRadius="36dp" />

        <com.google.android.material.button.MaterialButton
            android:id="@+id/button_4"
            style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut
ton"

            android:layout_width="72dp"
            android:layout_height="72dp"
            android:layout_margin="12dp"
            android:text="4"
            android:textColor="@color/white"
            android:textSize="32dp"
            app:cornerRadius="36dp" />

        <com.google.android.material.button.MaterialButton
            android:id="@+id/button_plus"
            style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut
ton"

            android:layout_width="72dp"
            android:layout_height="72dp"
            android:layout_margin="12dp"
            android:backgroundTint="@android:color/holo_orange_dark"
            android:text="+"
            android:textColor="@color/white"
            android:textSize="32dp"
            app:cornerRadius="36dp" />

    </LinearLayout>
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center"

```

```

        android:orientation="horizontal">

        <com.google.android.material.button.MaterialButton
            android:id="@+id/button_1"
            style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut
ton"

            android:layout_width="72dp"
            android:layout_height="72dp"
            android:layout_margin="12dp"
            android:text="1"
            android:textColor="@color/white"
            android:textSize="32dp"
            app:cornerRadius="36dp" />

        <com.google.android.material.button.MaterialButton
            android:id="@+id/button_2"
            style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut
ton"

            android:layout_width="72dp"
            android:layout_height="72dp"
            android:layout_margin="12dp"
            android:text="2"
            android:textColor="@color/white"
            android:textSize="32dp"
            app:cornerRadius="36dp" />

        <com.google.android.material.button.MaterialButton
            android:id="@+id/button_3"
            style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut
ton"

            android:layout_width="72dp"
            android:layout_height="72dp"
            android:layout_margin="12dp"
            android:text="3"
            android:textColor="@color/white"
            android:textSize="32dp"
            app:cornerRadius="36dp" />

        <com.google.android.material.button.MaterialButton
            android:id="@+id/button_minus"
            style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut
ton"

            android:layout_width="72dp"
            android:layout_height="72dp"
            android:layout_margin="12dp"

```

```

        android:backgroundTint="@android:color/holo_orange_dark"
        android:text="-"
        android:textColor="@color/white"
        android:textSize="32dp"
        app:cornerRadius="36dp" />

</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:orientation="horizontal">

    <com.google.android.material.button.MaterialButton
        android:id="@+id/button_ac"
        style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut
ton"

        android:layout_width="89dp"
        android:layout_height="wrap_content"
        android:layout_margin="20dp"
        android:backgroundTint="#600625"
        android:text="AC"
        android:textColor="@color/white"
        android:textSize="32dp"
        app:cornerRadius="36dp" />

    <com.google.android.material.button.MaterialButton
        android:id="@+id/button_0"
        style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut
ton"

        android:layout_width="72dp"
        android:layout_height="72dp"
        android:layout_margin="12dp"
        android:text="0"
        android:textColor="@color/white"
        android:textSize="32dp"
        app:cornerRadius="36dp" />

    <com.google.android.material.button.MaterialButton
        android:layout_width="72dp"
        android:layout_height="72dp"
        app:cornerRadius="36dp"
        style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut
ton"

```

```

        android:textSize="20dp"
        android:textColor="@color/white"
        android:layout_margin="12dp"
        android:id="@+id/button_dot"
        android:text="." />

<com.google.android.material.button.MaterialButton
    android:id="@+id/button_equal"
    style="@style/Widget.MaterialComponents.ExtendedFloatingActionBut
ton"

    android:layout_width="72dp"
    android:layout_height="72dp"
    android:layout_margin="12dp"
    android:backgroundTint="@android:color/holo_orange_dark"
    android:text="="
    android:textColor="@color/white"
    android:textSize="32dp"
    app:cornerRadius="36dp" />

</LinearLayout>
</LinearLayout>
</RelativeLayout>

```

.JAVA

```

package com.example.tiptpocalculator;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.TextView;

import com.google.android.material.button.MaterialButton;

public class MainActivity extends AppCompatActivity implements
View.OnClickListener {
    TextView result_tv;
    MaterialButton buttonnc,buttonbrackopen,buttonbackclose;
    MaterialButton
buttondivide,buttonmultiply,buttonplus,buttonminus,buttonequal;

```



```

    MaterialButton
button0,button1,button2,button3,button4,button5,button6,button7,button8,button9;
    MaterialButton buttonac,buttondot;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        result_tv = findViewById(R.id.result_tv);

        assignId(buttonc,R.id.button_c);
        assignId(buttonbrackopen,R.id.button_open_bracket);
        assignId(buttonbackclose,R.id.button_close_brack);
        assignId(buttondivide,R.id.button_divide);
        assignId(buttonmultiply,R.id.button_multiply);
        assignId(buttonplus,R.id.button_plus);
        assignId(buttonminus,R.id.button_minus);
        assignId(buttonequal,R.id.button_equal);
        assignId(button0,R.id.button_0);
        assignId(button1,R.id.button_1);
        assignId(button2,R.id.button_2);
        assignId(button2,R.id.button_3);
        assignId(button3,R.id.button_4);
        assignId(button4,R.id.button_5);
        assignId(button5,R.id.button_5);
        assignId(button6,R.id.button_6);
        assignId(button7,R.id.button_7);
        assignId(button8,R.id.button_8);
        assignId(button9,R.id.button_9);
        assignId(buttonac,R.id.button_ac);
        assignId(buttondot,R.id.button_dot);
    }
    void assignId(MaterialButton btn,int id){
        btn = findViewById(id);
        btn.setOnClickListener(this);
    }

    @Override
    public void onClick(View view) {
        MaterialButton button = (MaterialButton) view;
        String buttonText = button.getText().toString();
        String dataTocalculaate = result_tv.getText().toString();

        if (buttonText.equals("=")) {
            result_tv.setText(result_tv.getText());
        }
    }

```

```

        if (buttonText.equals("c")) {
            dataTocalculaate = dataTocalculaate.substring(0,
dataTocalculaate.length() - 60);
        } else {
            dataTocalculaate = dataTocalculaate + buttonText;
        }
        result_tv.setText(dataTocalculaate);
    }
}

```

COLORS

```

<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="purple_200">#FFBB86FC</color>
    <color name="purple_500">#FF6200EE</color>
    <color name="purple_700">#FF3700B3</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFFF</color>
</resources>

```

STRING

```

<resources>
    <string name="app_name">TipTpo Calculator</string>
</resources>

```

THEMES

```

<resources xmlns:tools="http://schemas.android.com/tools">
    <!-- Base application theme. -->
    <style name="Theme.TipTpoCalculator"
parent="Theme.MaterialComponents.DayNight.DarkActionBar">
        <!-- Primary brand color. -->
        <item name="colorPrimary">@color/purple_500</item>
        <item name="colorPrimaryVariant">@color/purple_700</item>
        <item name="colorOnPrimary">@color/white</item>

```

```
<!-- Secondary brand color. -->
<item name="colorSecondary">@color/teal_200</item>
<item name="colorSecondaryVariant">@color/teal_700</item>
<item name="colorOnSecondary">@color/black</item>
<!-- Status bar color. -->
<item name="android:statusBarColor">?attr/colorPrimaryVariant</item>
<!-- Customize your theme here. -->
</style>
</resources>
```