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28/10 Lab assignment

Activity_main.xml

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

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="horizontal"
    android:padding="10dp">

    <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
        android:layout_width="120dp"
        android:layout_height="fill_parent"
        android:orientation="vertical"
        android:padding="20dp">

        <Button
            android:id="@+id/button_count"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:text="Increase"
            android:background="@color/blue"
            android:layout_marginBottom="10dp"
            android:onClick="countup"/>

        <Button
            android:id="@+id/button_zero"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:text="Zero"
            android:background="@color/blue"
            android:layout_marginBottom="10dp"
            android:onClick="zero"/>

        <Button
            android:id="@+id/button_toast"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:text="Toast"
            android:background="@color/blue"
            android:layout_marginBottom="10dp"
            android:onClick="showtoast"/>

    </LinearLayout>

    <TextView
        android:id="@+id/show_count"
        android:layout_width="fill_parent"
        android:layout_height="300dp"
        android:layout_marginTop="0dp"
        android:background="@color/yellow"
        android:gravity="center_vertical|center_horizontal"
        android:text="@string/value"
        android:textSize="60dp" />

</LinearLayout>
```

Strings.xml

```
<resources>
    <string name="app_name">My Application</string>
    <string name="value">0</string>
</resources>
```

Color.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="colorPrimary">#6200EE</color>
    <color name="colorPrimaryDark">#3700B3</color>
    <color name="colorAccent">#03DAC5</color>
    <color name="yellow">#FFFF00</color>
    <color name="blue">#0000FF</color>
    <color name="red">#FF0000</color>
    <color name="purple">#8A2BE2</color>
</resources>
```

Main activity.java

```
package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.graphics.Color;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;

import org.w3c.dom.Text;

public class MainActivity extends AppCompatActivity
{
    private int count=0;
    private TextView showcount;
    private Button bcount;
    private Button bzero;
    private Button btoast;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        showcount= (TextView) findViewById(R.id.show_count);
        bcount = (Button) findViewById(R.id.button_count);
        bzero= (Button) findViewById(R.id.button_zero);
        btoast= (Button) findViewById(R.id.button_toast);

    }

    public void countup(View view)
```

```
{
    count++;
    if(showcount!=null)
        showcount.setText(Integer.toString(count));
    if(count%2==0) {
        showcount.setBackgroundColor(Color.GREEN);
        bcount.setBackgroundColor(Color.GREEN);
        bzero.setBackgroundColor(Color.GREEN);
        btoast.setBackgroundColor(Color.GREEN);
    }
    else {
        showcount.setBackgroundColor(Color.RED);
        bcount.setBackgroundColor(Color.RED);
        bzero.setBackgroundColor(Color.RED);
        btoast.setBackgroundColor(Color.RED);
    }
}

public void showtoast(View view)
{
    Toast.makeText(this, "TOAST MESSAGE DISPLAYED", Toast.LENGTH_LONG).show();
}

public void zero(View view)
{
    showcount.setText(Integer.toString(0));
    showcount.setBackgroundColor(Color.YELLOW);
    bcount.setBackgroundColor(Color.YELLOW);
    bzero.setBackgroundColor(Color.YELLOW);
    btoast.setBackgroundColor(Color.YELLOW);
    count=0;
}
}
```

