

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

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="match_parent"
```

```
    android:orientation="vertical"
```

```
    android:gravity="center"
```

```
    android:padding="20dp">
```

```
    <TextView
```

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

```
        android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
```

```
        android:text="0"
```

```
        android:textSize="40sp"
```

```
        android:textStyle="bold"
```

```
        android:layout_marginBottom="20dp"/>
```

```
    <Button
```

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

```
        android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
```

```
        android:text="Increase Counter" />
```

```
</LinearLayout>
```

```
package com.example.counterapp;
```

```
import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    private int counter = 0; // Initialize counter variable

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        TextView counterText = findViewById(R.id.counterText);

        Button increaseButton = findViewById(R.id.increaseButton);

        increaseButton.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                counter++; // Increase counter

                counterText.setText(String.valueOf(counter)); // Update UI

            }

        });

    }

}
```

}