## **ACTIVITY.MAIN.XML**

## AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools">
<application android:allowBackup="true"
android:icon="@mipmap/ic_launcher"
android:label="@string/app_name"
android:roundIcon="@mipmap/ic_launcher_round"
android:supportsRtl="true"
android:theme="@style/AppTheme">
<activity android:name=".MainActivity"
android:exported="true"> <intent-filter>
<action android:name="android.intent.action.MAIN" />
<category android:name="android.intent.category.LAUNCHER" />
</intent-filter> </activity> </application> </manifest>
```

```
MainActivity.java
package com.example.myapplication;
import android.content.DialogInterface;
import android.graphics.Color;
import android.graphics.Typeface;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import com.google.android.material.color.MaterialColors;
import java.util.ArrayList;
import java.util.List;
public class MainActivity extends AppCompatActivity {
private TextView textView;
private Button changeColorButton;
private Button changeFontButton;
@Override protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity main);
textView = findViewById(R.id.textView);
changeColorButton = findViewById(R.id.changeColorButton);
changeFontButton = findViewById(R.id.changeFontButton);
changeColorButton.setOnClickListener(new View.OnClickListener() {
@Override public void onClick(View v) {
showColorPicker();}});
changeFontButton.setOnClickListener(new View.OnClickListener() {
@Override public void onClick(View v) {
showFontPicker();}});}
private void showColorPicker() {
final List<String> colors = new ArrayList<>();
colors.add("Red"); colors.add("Blue");
colors.add("Black"); colors.add("Yellow");
AlertDialog.Builder builder = new AlertDialog.Builder(this);
builder.setTitle("Choose a Color")
.setItems(colors.toArray(new String[0]), new DialogInterface.OnClickListener() {
```

```
@Override
public void onClick(DialogInterface dialog, int which) {
switch (which) {
case 0: textView.setTextColor(Color.RED); break;
case 1: textView.setTextColor(Color.GREEN); break;
case 2: textView.setTextColor(Color.BLUE); break;
case 3: textView.setTextColor(Color.BLACK); break;
case 4: textView.setTextColor(Color.YELLOW); break; }
Toast.makeText(MainActivity.this, "Color changed!", Toast.LENGTH_SHORT).show(); } });
builder.show(); }
private void showFontPicker() {
final List<String> fonts = new ArrayList<>();
fonts.add("Normal");fonts.add("Bold");
fonts.add("Italic");
fonts.add("Monospace");
AlertDialog.Builder builder = new AlertDialog.Builder(this);
builder.setTitle("Choose a Font")
.setItems(fonts.toArray(new String[0]), new DialogInterface.OnClickListener() {
@Override public void onClick(DialogInterface dialog, int which) {
switch (which) {
case 0: textView.setTypeface(Typeface.DEFAULT); break;
case 1: textView.setTypeface(Typeface.DEFAULT_BOLD); break;
case 2: textView.setTypeface(Typeface.defaultFromStyle(Typeface.ITALIC)); break;
case 3: textView.setTypeface(Typeface.MONOSPACE); break; }
Toast.makeText(MainActivity.this, "Font changed!", Toast.LENGTH_SHORT).show();}});
builder.show();}}
activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
< Relative Layout xmlns: android="http://schemas.android.com/apk/res/android"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:padding="16dp">
<TextView
android:id="@+id/textView"
android:layout width="wrap content"
android:layout_height="wrap_content"
android:layout_centerHorizontal="true"
android:layout_marginBottom="20dp"
android:text="221501511"
android:textSize="24sp" />
<Button android:id="@+id/changeColorButton"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Change Color"
android:layout_centerHorizontal="true"
android:layout_below="@id/textView"/>
<Button android:id="@+id/changeFontButton"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Change Font"
android:layout centerHorizontal="true"
android:layout_below="@id/changeColorButton"
android:layout_marginTop="16dp"/>
</RelativeLayout>
```

