Exp 5: Alert, Custom, Popup

1. Create an empty views activity
2. Activity_Main.xml

RelativeLayout (id: main)
|
|-- LinearLayout (id: heading, orientation: horizontal)
|
|-- TextView (Text: "Dialog Boxes and Menus", textSize: 30dp, textAlignment: center, textStyle: bold)
|
|-- Button (id: alertdialog, Text: "Show Alert Dialog", textSize: 30dp)
|
|-- Button (id: customdialog, Text: "Show Custom Dialog", textSize: 30dp)
|
|-- Button (id: popup, Text: "Show Popup Menu", textSize: 30dp)

```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:id="@+id/main"
    android:padding="20dp"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <LinearLayout
        android:orientation="horizontal"
        android:id="@+id/heading"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Dialog Boxes and Menus"
        android:textSize="30dp"
        android:textAlignment="center"
        android:textStyle="bold"
        android:textColor="@color/black"
        android:layout_marginBottom="30dp"/>

    <Button
        android:id="@+id/alertdialog"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="60dp"
        android:text="Show Alert Dialog"
        android:textSize="30dp"
```

android:layout_below="@+id/heading"/>

Make more 2 buttons in the same way

3. Activity_Main.java

MainActivity (extends AppCompatActivity)

|

|-- Button (id: alertdialog, OnClickListener: Show Alert Dialog)

|

|-- Button (id: customdialog, OnClickListener: Show Custom Dialog)

|

|-- Button (id: popup, OnClickListener: Show Popup Menu)

** |**

** |-- PopupMenu (associated with Button: popup)**

** |**

** |-- MenuItems: "Settings", "Home"**

** |-- OnMenuItemClickListener: (does nothing, returns true)**

|

|-- AlertDialog.Builder (associated with Button: alertdialog)

** |-- Title: "Alert Dialog Box"**

** |-- Message: "Alert You are in an Alert Dialog Box"**

** |-- PositiveButton: "OK"**

|

|-- Dialog (associated with Button: customdialog)

** |-- Custom layout: R.layout.custom_dialog**

package com.example.buttons;

import android.app.AlertDialog;

import android.app.Dialog;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.PopupMenu;

```java
import androidx.activity.EdgeToEdge;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.graphics.Insets;

import androidx.core.view.ViewCompat;

import androidx.core.view.WindowInsetsCompat;


public class MainActivity extends AppCompatActivity {

    Button alertbt,custombt,popupbt;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);


        alertbt=(Button) findViewById(R.id.alertdialog);
        custombt=(Button) findViewById(R.id.customdialog);
        popupbt=(Button) findViewById(R.id.popup);


        alertbt.setOnClickListener(view -> {
          new AlertDialog.Builder(MainActivity.this)
                .setTitle("Alert Dialog Box")
                .setMessage("Alert You are in an Alert Dialog Box")
                .setPositiveButton("OK",null)
                .show();
        });


        custombt.setOnClickListener(view->{
            Dialog dialog=new Dialog(MainActivity.this);
            dialog.setContentView(R.layout.custom_dialog);
            dialog.show();
```

```
    });


    popupbt.setOnClickListener(view ->{


        PopupMenu popupMenu=new PopupMenu(MainActivity.this,popupbt);

        popupMenu.getMenu().add("Settings");

        popupMenu.getMenu().add("Home");

        popupMenu.setOnMenuItemClickListener(item ->{

            return true;

        });


        popupMenu.show();


    });


  }
}
```

4. Custom_dialog.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:padding="24dp"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="This is a custom dialog!"
        android:textSize="18sp"
        android:textStyle="bold"/>
</LinearLayout>
```