**Problem Statement:** Create an application using Grid Layout to go to another activity.

**AndroidManifest.xml Manifest File:**

<?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/Theme.AppCompat.Light.DarkActionBar">

<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>

<activity android:name=".ActivityTwo"></activity>

<activity android:name=".Activity2"></activity>

</application>

</manifest>

**activity\_main.xml Layout Resource File:**

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:columnCount="2"

android:rowCount="2"

android:padding="16dp">

<Button

android:id="@+id/button1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Go to Activity 1" />

<Button

android:id="@+id/button2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Go to Activity 2" />

<!-- Add more buttons as needed -->

</GridLayout>

**activity\_new.xml Layout Resource File:**

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_centerInParent="true"

android:padding="10dp"

android:text="Welcome to New Activity"

android:textColor="@color/colorPrimaryDark"

android:textSize="32dp"/>

</RelativeLayout>

**aactivity\_two.xml Layout Resource File:**

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_centerInParent="true"

android:padding="10dp"

android:text="Welcome to New Activity Two"

android:textColor="@color/colorPrimaryDark"

android:textSize="32dp"/>

</RelativeLayout>

**colors.xml Values Resource File:**

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

<resources>

<color name="black">#FF000000</color>

<color name="white">#FFFFFFFF</color>

</resources>

**strings.xml Values Resource File:**

<resources>

<string name="app\_name">GridNavigationApp</string>

</resources>

**colorPrimaryDark.xml Values Resource File:**

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

<resources>

<color name="colorPrimary">#3F51B5</color>

<color name="colorPrimaryDark">#303F9F</color>

<color name="colorAccent">#FF4081</color>

</resources>

**Refs.xml Values Resource File:**

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

<resources></resources>

**MainActivity.java JAVA File:**

package com.example.gridnavigationapp;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Button button1 = findViewById(R.id.button1);

button1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent intent = new Intent(MainActivity.this, ActivityTwo.class);

startActivity(intent);

}

});

Button button2 = findViewById(R.id.button2);

button2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

// Implement navigation to another activity here

Intent intent = new Intent(MainActivity.this, ActivityTwo.class);

startActivity(intent);

}

});

// Add more buttons as needed

}

}

**NewActivity.java JAVA File:**

package com.example.gridnavigationapp;

import android.os.Bundle;

import androidx.appcompat.app.AppCompatActivity;

public class NewActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_new);

}

}

**ActivityTwo.java JAVA File:**

package com.example.gridnavigationapp;

import android.os.Bundle;

import androidx.appcompat.app.AppCompatActivity;

public class ActivityTwo extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.aactivity\_two);

}

}

**OUTPUT:**





