**CO4\_Q1(GRID & ALERT)**

**AIM:**

Develop an application that uses GridView with images and displays an Alert box on selection.

**JAVA CODE:**

**MainActivity.java**

*package com.example.co4\_q1gridalert;*

*import androidx.appcompat.app.AlertDialog;*

*import androidx.appcompat.app.AppCompatActivity;*

*import android.content.Context;*

*import android.content.DialogInterface;*

*import android.os.Bundle;*

*import android.view.View;*

*import android.widget.AdapterView;*

*import android.widget.GridView;*

*public class MainActivity extends AppCompatActivity {*

*GridView gd;*

*int logos[] = {R.drawable.d1,R.drawable.d2, R.drawable.d3};*

*String[] names ={"AMAZON","Meesho","Nykaa"};*

*final Context context = this;*

*AlertDialog.Builder builder;*

*@Override*

*protected void onCreate(Bundle savedInstanceState) {*

*super.onCreate(savedInstanceState);*

*setContentView(R.layout.activity\_main);*

*GridView gv = (GridView) findViewById(R.id.gridView);*

*gv.setAdapter(new ImageAdapter(this));*

*builder = new AlertDialog.Builder(this);*

*gv.setOnItemClickListener(new AdapterView.OnItemClickListener() {*

*public void onItemClick(AdapterView<?> parent, View v, int position, long id) {*

*builder.setMessage("Website Name : "+String.valueOf(names[position]))*

*.setCancelable(false)*

*.setPositiveButton("Ok", new DialogInterface.OnClickListener() {*

*public void onClick(DialogInterface dialog, int id) {*

*}*

*});*

*AlertDialog alert = builder.create();*

*alert.setTitle("Alert Box");*

*alert.show();*

*}*

*});*

*}*

*}*

**ImageAdapter.java**

*package com.example.co4\_q1gridalert;*

*import android.content.Context;*

*import android.view.View;*

*import android.view.ViewGroup;*

*import android.widget.BaseAdapter;*

*import android.widget.GridView;*

*import android.widget.ImageView;*

*public class ImageAdapter extends BaseAdapter {*

*private Context mContext;*

*public ImageAdapter(Context c) {*

*mContext = c;*

*}*

*public int getCount() {*

*return thumbImages.length;*

*}*

*public Object getItem(int position) {*

*return null;*

*}*

*public long getItemId(int position) {*

*return 0;*

*}*

*public View getView(int position, View convertView, ViewGroup parent) {*

*ImageView imageView = new ImageView(mContext);*

*imageView.setLayoutParams(new GridView.LayoutParams(200, 200));*

*imageView.setScaleType(ImageView.ScaleType.CENTER\_CROP);*

*imageView.setPadding(8, 8, 8, 8);*

*imageView.setImageResource(thumbImages[position]);*

*return imageView;*

*}*

*public Integer[] thumbImages = {*

*R.drawable.d1,*

*R.drawable.d2,*

*R.drawable.d3*

*};*

*}*

**XML CODE:**

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

*<LinearLayout 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:layout\_width="match\_parent"*

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

*android:background="#94999A"*

*tools:context=".MainActivity">*

*<GridView*

*android:id="@+id/gridView"*

*android:layout\_width="fill\_parent"*

*android:layout\_height="wrap\_content"*

*android:background="#DFB7E6"*

*android:backgroundTint="#C59292"*

*android:footerDividersEnabled="false"*

*android:numColumns="3"*

*android:padding="1dp" />*

*</LinearLayout>*