COURSE OUTCOME:4

PROGRAM:1

AIM: Develop an application that use GridView with images and display Alert box on

selection

SOURCE CODE:

Activity\_main.xml:

<?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="#B5A830"

tools:context=".MainActivity">

<GridView

android:id="@+id/gridView"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:footerDividersEnabled="false"

android:numColumns="3"

android:padding="1dp" />

</LinearLayout>

MainActivity.java:

package com.example.co14p1gridview;

import androidx.appcompat.app.AlertDialog;

import androidx.appcompat.app.AppCompatActivity;

import android.app.Dialog;

import android.content.Context;

import android.content.DialogInterface;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.GridView;

import android.widget.ListAdapter;

import android.widget.SimpleAdapter;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

GridView gd;

int logos[] = {R.drawable.clickme, R.drawable.dp, R.drawable.dpagna, R.drawable.hereiam};

String[] names ={"clickme","dp","dpagna","fb","hereiam","goldenview",};

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("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("Info Alert");

alert.show();

}

});

}

}

ImageAdapter.java:

package com.example.co14p1gridview;

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.clickme,

R.drawable.dp,

R.drawable.dpagna,

R.drawable.fb\_logo,

R.drawable.hereiam,

R.drawable.resource\_new

};

}