# Program 9. Demonstrate ImageView and GridView

Activity\_main.xml

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

<GridView xmlns:android="<http://schemas.android.com/apk/res/android>" android:id="@+id/gridview"

android:layout\_width="fill\_parent" android:layout\_height="fill\_parent" android:columnWidth="120dp" android:numColumns="3" android:verticalSpacing="30dp" android:horizontalSpacing="5dp" android:stretchMode="columnWidth" android:gravity="center"

/>

MainActivity.java

package com.example.pgm91;

import androidx.appcompat.app.AppCompatActivity; import android.app.Activity;

import android.content.Intent; import android.os.Bundle; import android.view.View;

import android.widget.AdapterView; import android.widget.GridView;

public class MainActivity extends Activity

{

@Override

protected void onCreate(Bundle savedInstanceState)

{

super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main); GridView gridview = (GridView)

findViewById(R.id.gridview); gridview.setAdapter(new ImageAdapter(this)); gridview.setOnItemClickListener(new AdapterView.OnItemClickListener()

{

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

{

// Send intent to SingleViewActivity

Intent i = new Intent(getApplicationContext(), SingleViewActivity.class);

// Pass image index i.putExtra("id", position); startActivity(i);

}

});

}

}

ImageAdapter.java

package com.example.pgm91; import android.content.Context; import android.view.View; import android.view.ViewGroup;

import android.widget.BaseAdapter; import android.widget.GridView; import android.widget.ImageView;

class ImageAdapter extends BaseAdapter { private Context mContext;

public ImageAdapter(Context c) { mContext = c;

}

public int getCount() { return picIds.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; if (convertView == null) {

imageView = new ImageView(mContext); imageView.setLayoutParams(new

GridView.LayoutParams(85, 85)); imageView.setScaleType(ImageView.ScaleType.CENTER\_CROP); imageView.setPadding(8, 8, 8, 8);

} else {

imageView = (ImageView) convertView;

}

imageView.setImageResource(picIds[position]); return imageView;

}

public Integer[] picIds = { R.drawable.a, R.drawable.b, R.drawable.c, R.drawable.d, R.drawable.e,

};

}

activity\_single\_view.xml

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

<LinearLayout xmlns:android="<http://schemas.android.com/apk/res/android>" android:layout\_width="match\_parent"

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

<ImageView android:id="@+id/SingleView" android:layout\_width="fill\_parent" android:layout\_height="fill\_parent"/>

</LinearLayout>

SingleViewActivity.java package com.example.pgm91;

import androidx.appcompat.app.AppCompatActivity; import android.app.Activity;

import android.content.Intent; import android.os.Bundle;

import android.widget.ImageView;

public class SingleViewActivity extends AppCompatActivity { @Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_single\_view); Intent i = getIntent();

int position = i.getExtras().getInt("id");

ImageAdapter imageAdapter = new ImageAdapter(this); ImageView imageView = (ImageView)

findViewById(R.id.SingleView); imageView.setImageResource(imageAdapter.picIds[position]);

}

}

OUTPUT



