# Program 8. Create an android application to demonstrate GidView.

Activity\_msin.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="4" android:verticalSpacing="10dp" android:horizontalSpacing="10dp" android:stretchMode="columnWidth" android:gravity="center"

/>

MainActivity.java

package com.example.imageadaptor;

import androidx.appcompat.app.AppCompatActivity; import android.content.Intent;

import android.os.Bundle; import android.app.Activity; import android.view.Menu; import android.view.View;

import android.widget.GridView;

public class MainActivity extends AppCompatActivity { @Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

GridView gridview = (GridView) findViewById(R.id.gridview); gridview.setAdapter(new imageadaptor(this));

}

}

imageadaptor.java

package com.example.imageadaptor; 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 imageadaptor extends BaseAdapter { private Context mContext;

// Constructor

public imageadaptor(Context c) { mContext = c;

}

public int getCount() { return picIds.length;

}

public Object getItem(int position) { return null;

}

public long getItemId(int position) { return 0;

}

// create a new ImageView for each item

//referenced by the Adapter

public View getView(int position, View convertView, ViewGroup parent) { ImageView imageView;

if (convertView == null) {

imageView = new ImageView(mContext); imageView.setLayoutParams(new GridView.LayoutParams(200, 150));

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

}

else

{

imageView = (ImageView) convertView;

}

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

}

// Keep all Images in array public Integer[] picIds = { R.drawable.a, R.drawable.b, R.drawable.c, R.drawable.d, R.drawable.e, R.drawable.f, R.drawable.d, R.drawable.h, R.drawable.a, R.drawable.b, R.drawable.c, R.drawable.d, R.drawable.a, R.drawable.b, R.drawable.c, R.drawable.d, R.drawable.e, R.drawable.f, R.drawable.d, R.drawable.h, R.drawable.a, R.drawable.b,

R.drawable.c, R.drawable.d,

};

}

OUTPUT

