**Q. gridview**

**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"  
 tools:context=".MainActivity">  
  
 <GridView  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content"  
 android:id="@+id/grid"  
 android:numColumns="3"/>  
  
</LinearLayout>

**grid\_layout.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">  
  
 <ImageView  
 android:layout\_width="90dp"  
 android:layout\_height="90dp"  
 android:id="@+id/img"/>  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/text"  
 android:textSize="20dp"/>  
  
</LinearLayout>

**MainActivity.java**

package com.example.gridview;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.widget.GridView;  
  
public class MainActivity extends AppCompatActivity {  
  
 GridView gridView;  
 String con[]={"img1","img2","img3","img4","img5","img6","img7","img8"}; //for name under each image  
 int img[]={R.drawable.*p1*,R.drawable.*p2*,R.drawable.*p3*,R.drawable.*p4*,R.drawable.*p5*,R.drawable.*p6*,R.drawable.*p7*,R.drawable.*p8*};  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 gridView=findViewById(R.id.*grid*);  
 CustomAdapter customAdapter=new CustomAdapter(MainActivity.this,con,img);  
 gridView.setAdapter(customAdapter);  
 }  
}

**CustomAdapter.java**

package com.example.gridview;  
  
import android.content.Context;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.BaseAdapter;  
import android.widget.ImageView;  
import android.widget.TextView;  
  
public class CustomAdapter extends BaseAdapter {  
  
 Context context;  
 String con[];  
 int img[];  
 LayoutInflater layoutInflater;  
 public CustomAdapter(MainActivity mainActivity, String[] con, int[] img) {  
 this.context=mainActivity;  
 this.con=con;  
 this.img=img;  
 layoutInflater=(layoutInflater.*from*(mainActivity));  
 }  
  
 @Override  
 public int getCount() {  
 return img.length;  
 }  
  
 @Override  
 public Object getItem(int position) {  
 return null;  
 }  
  
 @Override  
 public long getItemId(int position) {  
 return 0;  
 }  
  
 @Override  
 public View getView(int position, View convertView, ViewGroup parent) {  
 convertView=layoutInflater.inflate(R.layout.*grid\_layout*,null);  
  
 TextView textView=convertView.findViewById(R.id.*text*);  
 ImageView imageView=convertView.findViewById(R.id.*img*);  
  
 textView.setText(con[position]);  
 imageView.setImageResource(img[position]);  
  
 return convertView;  
 }  
}

**Output**

