**GridView**

public class ImageData {  
 private String text;  
 private int image;  
  
 public ImageData() {  
 }  
  
 public ImageData(String text, int image) {  
 this.text = text;  
 this.image = image;  
 }  
  
 public String getText() {  
 return text;  
 }  
  
 public int getImage() {  
 return image;  
 }  
}

**gridview\_layout.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="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:gravity="center"  
 android:orientation="vertical"  
 android:padding="8dp">  
  
 <ImageView  
 android:id="@+id/imageView1"  
 android:layout\_width="100dp"  
 android:layout\_height="100dp"  
 tools:srcCompat="@tools:sample/avatars" />  
  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="TextView" />  
</LinearLayout>

**GridAdapter.java**

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;  
  
import java.util.ArrayList;  
  
public class GridAdapter extends BaseAdapter {  
 private Context context;  
 private ArrayList<ImageData> images=new ArrayList<ImageData>();  
  
 public GridAdapter(Context context, ArrayList<ImageData> images) {  
 this.context = context;  
 this.images = images;  
 }  
  
 @Override  
 public int getCount() {  
 return images.size();  
 }  
  
 @Override  
 public Object getItem(int i) {  
 return images.get(i);  
 }  
  
 @Override  
 public long getItemId(int i) {  
 return 0;  
 }  
  
 @Override  
 public View getView(int i, View view, ViewGroup viewGroup) {  
 View currentView=view;  
 if(currentView==null){  
 currentView= LayoutInflater.*from*(viewGroup.getContext()).inflate(R.layout.*gridview\_layout*,viewGroup,false);  
 }  
 ImageView img=(ImageView)currentView.findViewById(R.id.*imageView1*);  
 TextView txt=(TextView)currentView.findViewById(R.id.*textView3*);  
 ImageData imageData=images.get(i);  
 img.setImageResource(imageData.getImage());  
 txt.setText(imageData.getText());  
  
 return currentView;  
 }  
}

**Main Activity**

<androidx.constraintlayout.widget.ConstraintLayout 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:id="@+id/linear1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:context=".MainActivity" >  
  
 <GridView  
 android:id="@+id/gridView1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:gravity="center"  
 android:numColumns="3"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
</androidx.constraintlayout.widget.ConstraintLayout>

public class MainActivity extends AppCompatActivity {  
  
 GridView gridView;  
 ArrayList<ImageData> images=new ArrayList<ImageData>();  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 gridView=(GridView)findViewById(R.id.*gridView1*);  
 fillImages();  
 GridAdapter adp=new GridAdapter(getApplicationContext(),images);  
 gridView.setAdapter(adp);  
 gridView.setOnItemClickListener(new AdapterView.OnItemClickListener() {  
 @Override  
 public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {  
 ImageData img=(ImageData) adapterView.getItemAtPosition(i);  
 Toast.*makeText*(getApplicationContext(),img.getText(),Toast.*LENGTH\_SHORT*).show();  
 }  
 });  
 }  
 private void fillImages(){  
 images.add(new ImageData("Donald Duck",R.drawable.*donaldduck*));  
 images.add(new ImageData("Mickey Mouse",R.drawable.*mickey*));  
 images.add(new ImageData("Goofy",R.drawable.*goofy*));  
 images.add(new ImageData("Megamind",R.drawable.*megamind*));  
 images.add(new ImageData("Iron Man",R.drawable.*img0*));  
 images.add(new ImageData("Thor",R.drawable.*img1*));  
 }  
}