

Program to demonstrate GRIDVIEW in android

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="10dp"
    android:horizontalSpacing="10dp"
    android:stretchMode="columnWidth"
    android:gravity="center"
/>
```

MAINACTIVITY.JAVA

```
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
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));  
    }  
}
```

ImageAdaptor.java

```
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;  
    // Constructor  
    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;  
    }  
  
    // 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(85, 85));

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.sample2,
R.drawable.sample3,
        R.drawable.sample4,
R.drawable.sample5,
```

```
        R.drawable.sample6,  
R.drawable.sample7,  
  
        R.drawable.sample0,  
R.drawable.sample1,  
  
        R.drawable.sample2,  
R.drawable.sample3,  
  
        R.drawable.sample4,  
R.drawable.sample5,  
  
        R.drawable.sample6,  
R.drawable.sample7,  
  
        R.drawable.sample0,  
R.drawable.sample1,  
  
        R.drawable.sample2,  
R.drawable.sample3,  
  
        R.drawable.sample4,  
R.drawable.sample5,  
  
        R.drawable.sample6,  
R.drawable.sample7,  
  
        R.drawable.sample0, R.drawable.sample1  
    };  
}
```