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

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
};
}
```

## Output