8. Create an android application to demonstrate GridView.

## **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

```
package com.example.image;
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

```
package com.example.image;
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 piclds.length;
 }
  public Object getItem(int position) {
    return null;
 }
  public long getItemId(int position) {
    return 0;
 }
  public View getView(int position, View
      convertView, ViewGroup parent) {
    ImageView imageView;
    if (convertView == null) {
      imageView = new ImageView(mContext);
      imageView.setLayoutParams(new
          GridView.LayoutParams(200, 180));
      imageView.setScaleType(ImageView.ScaleType.CENTER_CROP);
      imageView.setPadding(8, 8, 8, 8);
    }
    else
      imageView = (ImageView) convertView;
    imageView.setImageResource(picIds[position]);
    return imageView;
  }
  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.sample8,
    R.drawable.sample9,
    R.drawable.sample10,
    R.drawable.sample11,
    R.drawable.sample12,
    R.drawable.sample13,
    R.drawable.sample14,
    //R.drawable.sample3,
    R.drawable.sample15,
    R.drawable.sample5,
    R.drawable.sample6,
    R.drawable.sample7,
    R.drawable.sample0,
    R.drawable.sample1
};
```

## **OUTPUT**

}

