

PROGRAM-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.gridview;
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
            ImageAdaptor(this));
    }
}
```

ImageAdaptor.java

```
package com.example.gridview;
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 ImageAdaptor extends BaseAdapter {
```

```

private Context mContext;
// Constructor
public ImageAdaptor(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(300, 470));

        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.ab,
    R.drawable.bc,
    R.drawable.cd,
    R.drawable.ee,
    R.drawable.ff,
    R.drawable.hh,
    R.drawable.jj,
    R.drawable.xx,
    R.drawable.kk,
    R.drawable.vv,
    R.drawable.mm,
    R.drawable.ll,

};
}

```

OUTPUT

