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

```
setContentView(R.layout.activity_main);
    GridView gridview = (GridView)
        findViewById(R.id.gridview);
    gridview.setAdapter(new
        ImageAdapter(this));
  }
}
ImageAdaptor.java
package com.example.griddemo;
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;
}
// 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

