

PROGAM8

ImageAdapter.java

```
package com.example.storage;

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  };
    }
package com.example.storage;

import androidx.appcompat.app.AppCompatActivity;

```

MainActivity.java

```

import android.os.Bundle;
import android.widget.GridView;

public class MainActivity extends AppCompatActivity {

    @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));
    }
}

```

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"
/>
```

