## **Practical No.10**

## Aim: Write an Android Program to Demonstrate Grid View

## **Source Code:**

```
<u>activity_main.xml</u>
```

```
<?xml version="1.0" encoding="utf-8"?>
< Relative Layout xmlns: android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:padding="16dp"
  tools:context=".MainActivity">
  <GridView
    android:id="@+id/gv"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:numColumns="4"/>
</RelativeLayout>
MainActivity.java
package com.example.practical_no_10;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.GridView;
import android.widget.Toast;
import java.lang.reflect.Array;
import java.util.Arrays;
public class MainActivity extends AppCompatActivity {
  GridView gridViews;
  String[] numbersArray;
  ArrayAdapter<String> adapter;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    gridViews=findViewById(R.id.gv);
    numbersArray=new String[]{
"One","Tow","Three","Four","Five","Six","Seven","Eight","Nine","Ten","Eleven","Twelv
e","Thirteen" };
```

```
adapter=new ArrayAdapter<>>(this,android.R.layout.simple_list_item_1,numbersArray);
    gridViews.setAdapter(adapter);
    gridViews.setOnItemClickListener(
        new AdapterView.OnItemClickListener() {
          @Override
          public void onItemClick(AdapterView<?> parent, View view, int position, long id) {
                String clickedItemValue= Arrays.asList(numbersArray).get(position);
                Toast.makeText(MainActivity.this, "Position: "+position+" Value:
"+clickedItemValue, Toast.LENGTH_SHORT).show();
          }
     }
}
```

## Output:

