**Program no: 15**

**Aim:** Program to develop an application that use GridView with images and display Alert box on selection

# XML Code:

activity\_main.xml

<LinearLayout xmlns:android="[http://schemas.android.com/apk/res/android"](http://schemas.android.com/apk/res/android) xmlns:tools="[http://schemas.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent"

tools:context=".MainActivity" >

<GridView android:numColumns="auto\_fit" android:gravity="center" android:columnWidth="100dp" android:stretchMode="columnWidth" android:layout\_width="fill\_parent" android:layout\_height="fill\_parent" android:id="@+id/grid"

/>

</LinearLayout> grid\_single.xml

<LinearLayout xmlns:android="[http://schemas.android.com/apk/res/android"](http://schemas.android.com/apk/res/android) xmlns:tools="[http://schemas.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="wrap\_content" android:layout\_height="wrap\_content"

android:padding="5dp" >

<ImageView android:id="@+id/grid\_image" android:layout\_width="50dp" android:layout\_height="50dp">

</ImageView>

<TextView android:id="@+id/grid\_text" android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" android:layout\_marginTop="15dp" android:textSize="9sp" >

</TextView>

</LinearLayout>

# Java Code:

MainActivity.java

package com.example.myapp;

import android.content.Context; import android.os.Bundle; import android.app.Activity;

import android.view.LayoutInflater; import android.view.View;

import android.view.ViewGroup; import android.widget.AdapterView; import android.widget.BaseAdapter; import android.widget.GridView; import android.widget.ImageView; import android.widget.TextView; import android.widget.Toast;

import com.example.myapp.CustomGrid; import com.example.myapp.R;

public class MainActivity extends Activity { GridView grid;

String[] web = {

"pinterest", "facebook", "dialer", "penguin", "spear",

"target",

"potato",

"snapchat", "spotify"

} ;

int[] imageId = { R.drawable.*a*, R.drawable.*b*, R.drawable.*c*, R.drawable.*d*, R.drawable.*e*, R.drawable.*f*, R.drawable.*g*, R.drawable.*h*, R.drawable.*i*,

};

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.*activity\_main*);

CustomGrid adapter = new CustomGrid(MainActivity.this, web, imageId); grid=(GridView)findViewById(R.id.*grid*);

grid.setAdapter(adapter);

grid.setOnItemClickListener(new AdapterView.OnItemClickListener() {

@Override

public void onItemClick(AdapterView<?> parent, View view, int position, long id) {

Toast.*makeText*(MainActivity.this, "You Clicked at " +web[+ position], Toast.*LENGTH\_SHORT*).show();

}

});

}

}

CustomGrid.java

package com.example.myapp; import android.content.Context;

import android.view.LayoutInflater; import android.view.View;

import android.view.ViewGroup; import android.widget.BaseAdapter; import android.widget.ImageView; import android.widget.TextView;

public class CustomGrid extends BaseAdapter { private Context mContext;

private final String[] web; private final int[] Imageid;

public CustomGrid(Context c,String[] web,int[] Imageid ) { mContext = c;

this.Imageid = Imageid; this.web = web;

}

@Override

public int getCount() {

// *TODO Auto-generated method stub*

return web.length;

}

@Override

public Object getItem(int position) {

// *TODO Auto-generated method stub*

return null;

}

@Override

public long getItemId(int position) {

// *TODO Auto-generated method stub*

return 0;

}

@Override

public View getView(int position, View convertView, ViewGroup parent) {

// *TODO Auto-generated method stub*

View grid;

LayoutInflater inflater = (LayoutInflater) mContext

.getSystemService(Context.*LAYOUT\_INFLATER\_SERVICE*); if (convertView == null) {

grid = new View(mContext);

grid = inflater.inflate(R.layout.*grid\_single*, null);

TextView textView = (TextView) grid.findViewById(R.id.*grid\_text*); ImageView imageView = (ImageView)grid.findViewById(R.id.*grid\_image*); textView.setText(web[position]); imageView.setImageResource(Imageid[position]);

} else {

grid = (View) convertView;

}

return grid;

}

}

# Output:

