

```

/res/activity.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">

    <ListView
        android:id="@+id/simpleListView"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:divider="@color/material_blue_grey_800"
        android:dividerHeight="1dp" />
</LinearLayout>
/res/layout

```

/activity_activitylistview.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">

    <TextView
        android:id="@+id/textView"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        />
</LinearLayout>

```

.java file

```

package com.example.listview;
import android.os.Bundle;
import android.app.Activity;
import android.widget.ArrayAdapter;import android.widget.ListView;

```

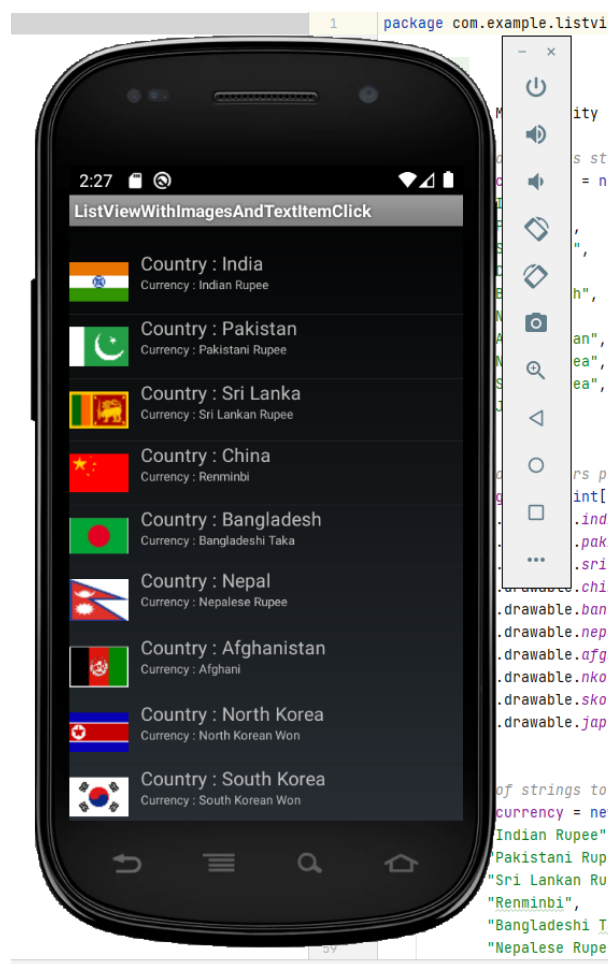
```

public class MainActivity extends Activity
{
    // Array of strings...
    ListView simpleList;
    String countryList[] = {"India", "China", "australia", "Portugle",
    "America", "NewZealand"};

    @Override protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        simpleList = (ListView) findViewById(R.id.simpleListView);
        ArrayAdapter<String> arrayAdapter = new ArrayAdapter<String>(this,
        R.layout.activity_activitylistview, R.id.textView, countryList);
        simpleList.setAdapter(arrayAdapter);
    }
}

```

custom listview example 2



```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"

```

```

        android:orientation="vertical" >

        <TextView
            android:id="@+id/textview"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content" />

        <ListView
            android:id="@+id/listview"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content" />

    </LinearLayout>

```

/res/layout/listviewlayout.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="horizontal" >

    <ImageView
        android:id="@+id/flag"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:contentDescription="@string/hello"
        android:paddingTop="10dp"
        android:paddingRight="10dp"
        android:paddingBottom="10dp" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical" >

        <TextView
            android:id="@+id/txt"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:textSize="15dp" />

        <TextView
            android:id="@+id/cur"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:textSize="10dp" />

    </LinearLayout>
</LinearLayout>

```

.java file

```

package com.example.listview1_v1;

import androidx.appcompat.app.AppCompatActivity;

```

```

import android.os.Bundle;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;

import android.app.Activity;
import android.os.Bundle;
import android.view.Menu;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.LinearLayout;
import android.widget.ListView;
import android.widget.SimpleAdapter;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends Activity {

    // Array of strings storing country names
    String[] countries = new String[] {
        "India",
        "Pakistan",
        "Sri Lanka",
        "China",
        "Bangladesh",
        "Nepal",
        "Afghanistan",
        "North Korea",
        "South Korea",
        "Japan"
    };

    // Array of integers points to images stored in /res/drawable-ldpi/
    int[] flags = new int[]{
        R.drawable.india,
        R.drawable.pakistan,
        R.drawable.srilanka,
        R.drawable.china,
        R.drawable.bangladesh,
        R.drawable.nepal,
        R.drawable.afghanistan,
        R.drawable.nkorea,
        R.drawable.skorea,
        R.drawable.japan
    };

    // Array of strings to store currencies
    String[] currency = new String[]{
        "Indian Rupee",
        "Pakistani Rupee",
        "Sri Lankan Rupee",
        "Renminbi",
        "Bangladeshi Taka",
        "Nepalese Rupee",
        "Afghani",
        "North Korean Won",
    }

```

```

        "South Korean Won",
        "Japanese Yen"
    };

    /** Called when the activity is first created. */
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        // Each row in the list stores country name, currency and flag
        List<HashMap<String,String>> aList = new
        ArrayList<HashMap<String,String>>();

        for(int i=0;i<10;i++){
            HashMap<String, String> hm = new HashMap<String,String>();
            hm.put("txt", "Country : " + countries[i]);
            hm.put("cur","Currency : " + currency[i]);
            hm.put("flag", Integer.toString(flags[i]) );
            aList.add(hm);
        }

        // Keys used in Hashmap
        String[] from = { "flag","txt","cur" };

        // Ids of views in listview_layout
        int[] to = { R.id.flag,R.id.txt,R.id.cur};

        // Instantiating an adapter to store each items
        // R.layout.listview_layout defines the layout of each item
        SimpleAdapter adapter = new SimpleAdapter(getBaseContext(), aList,
        R.layout.listview_layout, from, to);

        // Getting a reference to listview of main.xml layout file
        ListView listView = ( ListView ) findViewById(R.id.listview);

        // Setting the adapter to the listView
        listView.setAdapter(adapter);

        // Item Click Listener for the listview
        OnItemClickListener itemClickListener = new OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> parent, View container,
            int position, long id) {
                // Getting the Container Layout of the ListView
                LinearLayout linearLayoutParent = (LinearLayout) container;

                // Getting the inner Linear Layout
                LinearLayout linearLayoutChild = (LinearLayout )
                linearLayoutParent.getChildAt(1);

                // Getting the Country TextView
                TextView tvCountry = (TextView)
                linearLayoutChild.getChildAt(0);

                Toast.makeText(getBaseContext(),
                tvCountry.getText().toString(), Toast.LENGTH_LONG).show();
            }
        }
    }

```

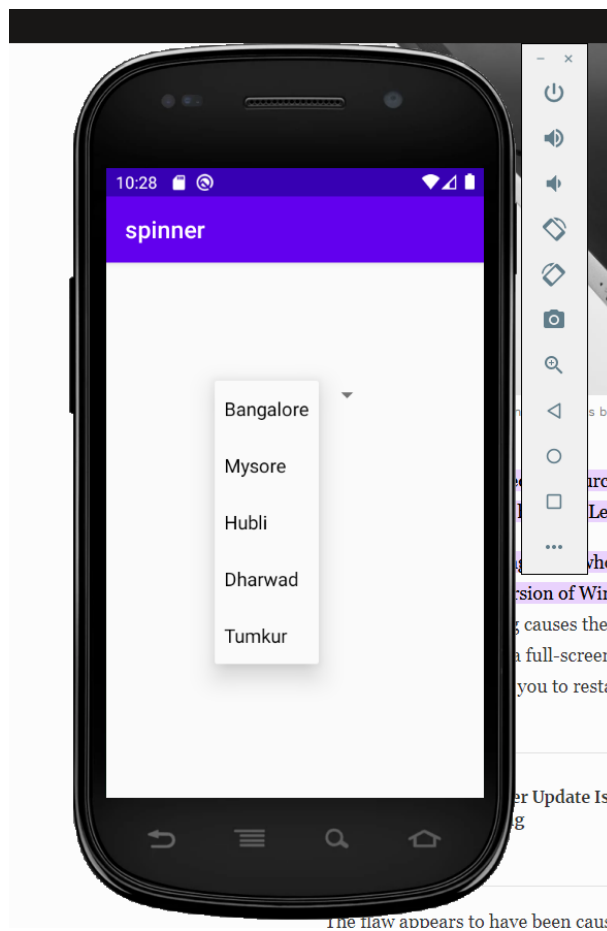
```

};

// Setting the item click listener for the listview
listView.setOnItemClickListener(itemClickListener);
}

}

```



```

<RelativeLayout 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"
    tools:context=".MainActivity">

    <Spinner
        android:id="@+id/simpleSpinner"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="100dp" />

</RelativeLayout>

```

```

package com.example.spinner;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Spinner;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity implements
AdapterView.OnItemClickListener{

    String[] cityNames={"Bangalore","Mysore","Hubli","Dharwad","Tumkur"};
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        //Getting the instance of Spinner and applying OnItemSelectedListener on it
        Spinner spin = (Spinner) findViewById(R.id.simple_spinner);
        spin.setOnItemSelectedListener(this);

        //Creating the ArrayAdapter instance having the city list
        ArrayAdapter aa = new
        ArrayAdapter(this,android.R.layout.simple_spinner_item,cityNames);

        aa.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
        //Setting the ArrayAdapter data on the Spinner
        spin.setAdapter(aa);
    }


    //Performing action onItemSelected and onNothing selected
    @Override
    public void onItemSelected(AdapterView<?> arg0, View arg1, int
position,long id) {
        Toast.makeText(getApplicationContext(), cityNames[position],
Toast.LENGTH_LONG).show();
    }

    @Override
    public void onNothingSelected(AdapterView<?> arg0) {
        // TODO Auto-generated method stub
    }
}

```