**PRACTICAL-3.1**

**AIM:**

**Create simple Application which show the use of List view.**

**PROGRAM CODE:**

* **activity\_main.xml:**

*<?*xml version="1.0" encoding="utf-8"*?>*<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.parthnpatel.listview.MainActivity">  
  
 <ListView  
 android:id="@+id/listView"  
 android:layout\_width="305dp"  
 android:layout\_height="537dp"  
 android:scrollbarSize="10dp"  
 android:textAlignment="center"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.726" />  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="140dp"  
 android:layout\_height="29dp"  
 android:fontFamily="sans-serif-condensed-medium"  
 android:text="@string/parth\_patel\_19dcs098"  
 android:textColor="#FF9800"  
 android:textSize="14sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="@+id/listView"  
 app:layout\_constraintHorizontal\_bias="0.6"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.042"  
 tools:ignore="TextContrastCheck" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

* **mylist.xml:**

<?xml version="1.0" encoding="utf-8"?>  
  
<TextView xmlns:android="http://schemas.android.com/apk/res/android"  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Medium Text"  
 android:textStyle="bold"  
 android:textAppearance="?android:attr/textAppearanceMedium"  
 android:layout\_marginLeft="10dp"  
 android:layout\_marginTop="5dp"  
 android:padding="2dp"  
 android:textColor="#4d4d4d"  
 />

* **strings.xml:**

<resources>  
 <string name="app\_name">ListView</string>  
 <string name="parth\_patel\_19dcs098">Parth Patel-19DCS098</string>  
 <string-array name="array\_cities">  
 <item>Ahmedabad</item>  
 <item>Bhavnagar</item>  
 <item>Chandigarh</item>  
 <item>Daman</item>  
 <item>Faridabad</item>  
 <item>Houston</item>  
 <item>Indianapolis</item>  
 <item>Jaipur</item>  
 <item>Kansas City</item>  
 <item>London</item>  
 <item>Manchester</item>  
 <item>New York City </item>  
 <item>Ottawa</item>  
 <item>Paris</item>  
 <item>Raipur</item>  
 <item>Surrey</item>  
 <item>Udaipur</item>  
 <item>Vadodara</item>  
 </string-array>  
</resources>

* **MainActivity.java:**

package com.parthnpatel.listview;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
  
import android.view.View;  
import android.widget.AdapterView;  
import android.widget.ArrayAdapter;  
import android.widget.ListView;  
import android.widget.TextView;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
 ListView listView;  
 TextView textView;  
 String[] listItem;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
  
 listView=(ListView)findViewById(R.id.listView);  
 textView=(TextView)findViewById(R.id.textView);  
 listItem = getResources().getStringArray(R.array.array\_cities);  
 final ArrayAdapter<String> adapter = new ArrayAdapter<String>(this,  
 android.R.layout.simple\_list\_item\_1, android.R.id.text1, listItem);  
 listView.setAdapter(adapter);  
  
 listView.setOnItemClickListener(new AdapterView.OnItemClickListener() {  
 @Override  
 public void onItemClick(AdapterView<?> adapterView, View view, int position, long l) {  
  
 String value=adapter.getItem(position);  
 Toast.makeText(getApplicationContext(),value,Toast.LENGTH\_LONG).show();  
  
 }  
 });  
 }  
}

**OUTPUT:**





