

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  
1) {  
  
        String value=adapter.getItem(position);  
        Toast.makeText(getApplicationContext(),value,Toast.LENGTH_LONG).show();  
  
    }  
});  
}  
}
```

OUTPUT:



