

Practical No.: 8

Aim: Write a Android Program to Demonstrate List view Layout

Source 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=".MainActivity">

    <ListView
        android:id="@+id/listView"
        android:layout_width="match_parent"
        android:layout_height="fill_parent"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```
package com.example.practical_no_8;

import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
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;
    ArrayAdapter<String> adapter;

    @SuppressLint("ResourceType")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

```

listView=findViewById(R.id.listView);
listItem=getResources().getStringArray(R.array.array_technology);

adapter=new
ArrayAdapter<>(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<?> parent, View view, int position, long id) {
            String value=adapter.getItem(position);
            Toast.makeText(MainActivity.this, value, Toast.LENGTH_SHORT).show();
        }
    }
);
}
}

```

Strings.xml

```

<resources>
    <string name="app_name">Practical_No_8</string>
    <string-array name="array_technology">
        <item>Android</item>
        <item>Java</item>
        <item>PHP</item>
        <item>Hadoop</item>
        <item>SAP</item>
        <item>Python</item>
        <item>Ajax</item>
        <item>C++</item>
        <item>Ruby</item>
        <item>Rails</item>
        <item>.Net</item>
        <item>Perl</item>
    </string-array>
</resources>

```

Output:

