

Practical No. 9

Program to implement progress bar

Java File

```
package myapp.org.view;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.GridView;
import android.widget.ImageView;
import android.widget.ListView;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.List;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        // ListView setup
        ListView listView = findViewById(R.id.listView);

        List<String> listData = new ArrayList<>(Arrays.asList("JONNY", "MARRY", "ERA",
"JOHN"));

        ArrayAdapter<String> listAdapter = new ArrayAdapter<>(this,
android.R.layout.simple_list_item_1, listData);

        listView.setAdapter(listAdapter);

        // GridView setup
        GridView gridView = findViewById(R.id.gridView);

        List<String> gridData = new ArrayList<>(Arrays.asList("Computer", "E & TC ",
"DDGM", "IT", "Civil", "Mechanical"));
```

```
    ArrayAdapter<String> gridAdapter = new ArrayAdapter<>(this,
android.R.layout.simple_list_item_1, gridData);

    gridView.setAdapter(gridAdapter);

    // ImageView setup
    ImageView imageView = findViewById(R.id.imageView);
    imageView.setImageResource(R.drawable.logo);
}
}
```

XML File

```
<?xml version="1.0" encoding="utf-8"?>
<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"
    android:padding="16dp"
    tools:context=".MainActivity">

    <!-- ListView -->
    <TextView
        android:id="@+id/listViewLabel"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Students Names"
        android:textSize="18sp"
        android:textStyle="bold" />

    <ListView
        android:id="@+id/listView"
        android:layout_width="match_parent"
```

```
    android:layout_height="200dp"
    android:layout_below="@id/listViewLabel"
    android:layout_marginTop="8dp" />
```

```
<!-- GridView -->
```

```
<TextView
    android:id="@+id/gridViewLabel"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Departments"
    android:textSize="18sp"
    android:textStyle="bold"
    android:layout_below="@id/listView"
    android:layout_marginTop="13dp" />
```

```
<GridView
    android:id="@+id/gridView"
    android:layout_width="match_parent"
    android:layout_height="200dp"
    android:numColumns="2"
    android:layout_below="@id/gridViewLabel"
    android:layout_marginTop="8dp" />
```

```
<!-- ImageView -->
```

```
<TextView
    android:id="@+id/imageViewLabel"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="College Logo"
    android:textSize="18sp"
```

```
        android:textStyle="bold"
        android:layout_below="@id/gridView"
        android:layout_marginTop="16dp" />
```

```
<!-- ScrollView -->
```

```
<ImageView
    android:id="@+id/imageView"
    android:layout_width="120dp"
    android:layout_height="122dp"
    android:layout_below="@id/imageViewLabel"
    android:layout_alignParentEnd="true"
    android:layout_marginTop="-4dp"
    android:layout_marginEnd="117dp"
    android:scaleType="centerCrop"
    android:src="@drawable/logo" />
```

```
<TextView
    android:id="@+id/scrollViewLabel"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/imageView"
    android:layout_alignParentStart="true"
    android:layout_marginStart="7dp"
    android:layout_marginTop="12dp"
    android:text="College Labs"
    android:textSize="18sp"
    android:textStyle="bold" />
```

```
<ScrollView
    android:id="@+id/scrollView" />
```

```
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_below="@id/scrollViewLabel"
android:layout_marginTop="8dp">
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical">
```

```
    <TextView
```

```
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hardware Lab" />
```

```
    <TextView
```

```
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Project Development Lab" />
```

```
    <TextView
```

```
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Computer Fundamental Lab" />
```

```
    <TextView
```

```
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Programming Lab" />
```

```
    <TextView
```

```
android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:text="Networking Lab" />
```

```
</LinearLayout>
```

```
</ScrollView>
```

```
</RelativeLayout>
```

Output:

