***Slip10***

***Q1). Create an Android Application that Demonstrate Switch and Toggle Button***

***Xml file***

***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"**>  
  
<**Switch**android:id**="@+id/switchButton"**android:layout\_width**="wrap\_content"**android:layout\_height**="wrap\_content"**android:text**="Switch"**android:checked**="false"**android:layout\_marginBottom**="100dp"**android:layout\_centerHorizontal**="true"**/>  
  
  
<**ToggleButton**android:id**="@+id/toggleButton"**android:layout\_width**="wrap\_content"**android:layout\_height**="wrap\_content"**android:textOn**="On"**android:textOff**="Off"**android:checked**="false"**android:layout\_below**="@id/switchButton"**android:layout\_centerHorizontal**="true"**/>  
  
</**RelativeLayout**>

***Java file***

**package** com.example.slip10\_1;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.os.Bundle;  
**import** android.widget.CompoundButton;  
**import** android.widget.Switch;  
**import** android.widget.Toast;  
**import** android.widget.ToggleButton;  
  
**public class** MainActivity**extends** AppCompatActivity{  
**private** Switch switchButton;  
**private** ToggleButtontoggleButton;  
  
@Override  
**protected void** onCreate(Bundle savedInstanceState) {  
**super**.onCreate(savedInstanceState);  
setContentView(R.layout.*activity\_main*);  
  
switchButton= findViewById(R.id.*switchButton*);  
toggleButton= findViewById(R.id.*toggleButton*);  
  
switchButton.setOnCheckedChangeListener(**new** CompoundButton.OnCheckedChangeListener() {  
@Override  
**public void** onCheckedChanged(CompoundButtonbuttonView, **boolean**isChecked) {  
**if** (isChecked) {  
*// Switch is on*Toast.*makeText*(MainActivity.**this**, **"Switch is on"**, Toast.*LENGTH\_SHORT*).show();  
 } **else** {  
*// Switch is off*Toast.*makeText*(MainActivity.**this**, **"Switch is off"**, Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
 });  
  
toggleButton.setOnCheckedChangeListener(**new** CompoundButton.OnCheckedChangeListener() {  
@Override  
**public void** onCheckedChanged(CompoundButtonbuttonView, **boolean**isChecked) {  
**if** (isChecked) {  
*// Toggle button is on*Toast.*makeText*(MainActivity.**this**, **"Toggle button is on"**, Toast.*LENGTH\_SHORT*).show();  
 } **else** {  
*// Toggle button is off*Toast.*makeText*(MainActivity.**this**, **"Toggle button is off"**, Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
 });  
 }  
}

***Q2 Demostrate Array Adapter using List View to Display list of fruits***

***Xml file***

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout  
 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">  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical">  
  
 <ListView  
 android:id="@+id/fruit\_list"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"/>  
</LinearLayout>  
  
</LinearLayout>

***Java file***

package com.example.slip10application;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.widget.ArrayAdapter;  
import android.widget.ListView;  
  
public class MainActivity extends AppCompatActivity {  
 String[] fruitArray={"Apple","mango","Banana","Blackberry","Pinaple","strawbery"};  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 ArrayAdapter adapter=new ArrayAdapter<String>(this, androidx.appcompat.R.layout.*support\_simple\_spinner\_dropdown\_item*,fruitArray);  
 ListView listView=(ListView) findViewById(R.id.*fruit\_list*);  
 listView.setAdapter(adapter);  
  
  
 }  
}