MAD LAB INTERNALS 1

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5B ISE

42. Create an app with a list of courses. Upon selecting one from the listview a Toast should pop up indicating the choice.

activity\_main.xml:

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:background="@color/mydarkbg"

>

<TextView

android:id="@+id/textView2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Choose Your Course"

android:layout\_gravity="center"

android:textAlignment="center"

android:background="@color/crimson"

android:textSize="25dp"

android:padding="15dp"

android:textColor="@color/white"

/>

<ListView

android:id="@+id/simpleListView"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:divider="@color/mygrey"

android:dividerHeight="1dp"

>

</ListView>

</LinearLayout>

colors.xml:

<?xml version="1.0" encoding="utf-8"?>

<resources>

<color name="purple\_200">#FFBB86FC</color>

<color name="purple\_500">#FF6200EE</color>

<color name="purple\_700">#FF3700B3</color>

<color name="teal\_200">#FF03DAC5</color>

<color name="teal\_700">#FF018786</color>

<color name="black">#FF000000</color>

<color name="white">#FFFFFFFF</color>

<color name="vibranium">#FF664EAE</color>

<color name="crimson">#FF03dac5</color>

<color name="mygrey">#FF8d99ae</color>

<color name="myoffwhite">#FFedf2f4</color>

<color name="mydarkbg">#FF171E24</color>

<color name="listcolor">#FF1C2A35</color>

<color name="textcolor">#FF7EC7FF</color>

</resources>

activity\_listview.xml:

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical">

<TextView

android:id="@+id/textView"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_gravity="center"

android:padding="20dp"

android:textColor="@color/textcolor" />

</LinearLayout>

MainActivity.java:

package com.example.labexamnava;

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.Toast;

public class MainActivity extends AppCompatActivity {

ListView myList;

String coursesList[] = {"Data Communication and Networks", "Mobile App Development", "Advance Data Structures", "Machine Learning", "Object Oriented Programming using C++", "Analysis and Design of Algorithms", "Advance Python Programming", "Data Structures using C"};

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

myList = (ListView)findViewById(R.id.*simpleListView*);

ArrayAdapter<String> myAdapter = new ArrayAdapter<String>(this, R.layout.*activity\_listview*, R.id.*textView*, coursesList);

myList.setAdapter(myAdapter);

myList.setOnItemClickListener(new AdapterView.OnItemClickListener() {

@Override

public void onItemClick(AdapterView<?> adapterView, View view, int position, long l) {

String value=myAdapter.getItem(position);

Toast.*makeText*(getApplicationContext(),"You have selected: \n"+value, Toast.*LENGTH\_SHORT*).show();

}

});

}

}

Output:

