

# Task - 3

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Q) Create an android app that has list of student's names and if the permission is on via switch button, user can search student name via search box which is on top of the screen. If the switch is off, then the search box will not work.

## 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"
    android:background="#1BC8D7"
    tools:context=".MainActivity">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:id="@+id/linear"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.0"
        android:background="#FDF62E"
        tools:ignore="MissingConstraints">

        <SearchView
            android:id="@+id/search"
            android:layout_width="340dp"
            android:background="#FDF62E"
            android:layout_height="wrap_content"
            />

        <Switch
            android:id="@+id/switch1"
            android:layout_width="0dp"
            android:layout_height="48dp"
            android:layout_weight="1"
            android:background="#FF6F00"
            tools:ignore="UseSwitchCompatOrMaterialXml" />

    </LinearLayout>

    <ListView
        android:id="@+id/myList"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background="#EF55A7"
```

```

        android:padding="5dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toBottomOf="@id/linear"
        app:layout_constraintVertical_bias="0.0" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

## MainActivity.java

```

package com.example.phntaskthree;

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.CompoundButton;
import android.widget.ListView;
import android.widget.SearchView;
import android.widget.Switch;

public class MainActivity extends AppCompatActivity {
    String[] s= {"Aarav", "Aditi", "Anika", "Arya", "Chirag", "Devanshi", "Dhruv",
"Esha", "Gaurav",
        "Harsh", "Ishaan", "Jhanvi", "Kabir", "Kavya", "Lakshya", "Mira",
"Neha", "Om", "Pranav",
        "Prisha", "Rahul", "Rhea", "Rohan", "Sahana", "Samarth", "Sanvi",
"Shanaya", "Shreya",
        "Siddharth", "Srishti", "Suhana", "Tanvi", "Tanya", "Tara", "Tisha",
"Uma", "Urvi",
        "Ved", "Vidhi", "Vikram", "Yash", "Yuvraj", "Zara", "Zoya", "Advait",
"Akshay", "Daksh",
        "Ishani", "Navya"};

    ListView listView;
    SearchView searchView;
    Switch aSwitch;

    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        listView=findViewById(R.id.myList);
        searchView=findViewById(R.id.search);
        searchView.setVisibility(View.INVISIBLE);
        ArrayAdapter<String> adapter=new ArrayAdapter<>(getApplicationContext(),
android.R.layout.simple_list_item_1,s);

        listView.setAdapter(adapter);
        aSwitch=findViewById(R.id.switch1);

        searchView.setOnQueryTextListener(new SearchView.OnQueryTextListener() {
            @Override
            public boolean onQueryTextSubmit(String query) {
                adapter.getFilter().filter(query);
                return false;
            }

            @Override
            public boolean onQueryTextChange(String newText) {

```

```

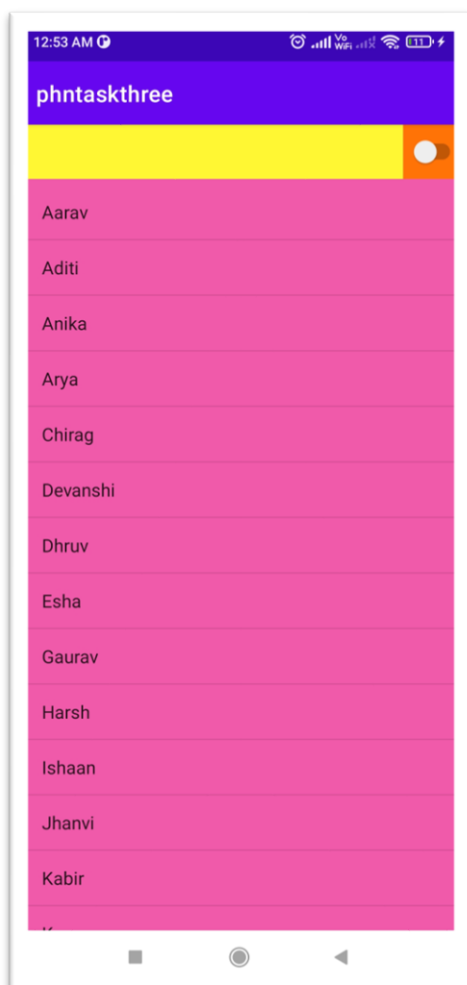
        adapter.getFilter().filter(newText);
        return false;
    }
});

aSwitch.setOnCheckedChangeListener(new
CompoundButton.OnCheckedChangeListener() {
    @Override
    public void onCheckedChanged(CompoundButton buttonView, boolean
isChecked) {
        if(!isChecked){
            searchView.setVisibility(View.INVISIBLE);
        }else{
            searchView.setVisibility(View.VISIBLE);
        }
    }
});
}
}
}

```

## Screen Shots

### Disabled



### Enable

