**MP Assignment**

**XML file**

**<?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">**

**<ImageView**

**android:id="@+id/imageView"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintEnd\_toEndOf="parent"**

**app:layout\_constraintHorizontal\_bias="0.0"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"**

**app:layout\_constraintVertical\_bias="1.0"**

**app:srcCompat="@drawable/bb" />**

**<ImageButton**

**android:id="@+id/ok"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:backgroundTint="#00FFFFFF"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintEnd\_toEndOf="parent"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"**

**app:layout\_constraintVertical\_bias="0.713"**

**app:srcCompat="@drawable/ok" />**

**<Spinner**

**android:id="@+id/Country"**

**android:layout\_width="142dp"**

**android:layout\_height="29dp"**

**android:textAlignment="center"**

**android:popupBackground="#F1BBC4"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintEnd\_toEndOf="parent"**

**app:layout\_constraintHorizontal\_bias="0.94"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"**

**app:layout\_constraintVertical\_bias="0.256" />**

**<Spinner**

**android:id="@+id/City"**

**android:layout\_width="177dp"**

**android:layout\_height="31dp"**

**android:popupBackground="#F1BBC4"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintEnd\_toEndOf="parent"**

**app:layout\_constraintHorizontal\_bias="0.934"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"**

**app:layout\_constraintVertical\_bias="0.518" />**

**<Spinner**

**android:id="@+id/State"**

**android:layout\_width="169dp"**

**android:layout\_height="29dp"**

**android:popupBackground="#F1BBC4"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintEnd\_toEndOf="parent"**

**app:layout\_constraintHorizontal\_bias="1.0"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"**

**app:layout\_constraintVertical\_bias="0.383" />**

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

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**MainActivity.java**

**package com.example.country\_state\_city;**

**import androidx.appcompat.app.AppCompatActivity;**

**import android.os.Bundle;**

**import android.view.View;**

**import android.widget.\*;**

**import android.widget.AdapterView;**

**import android.widget.ArrayAdapter;**

**import android.widget.Spinner;**

**import android.widget.Toast;**

**public class MainActivity extends AppCompatActivity {**

**Spinner Country,State,City;**

**ImageButton ok;**

**@Override**

**protected void onCreate(Bundle savedInstanceState) {**

**super.onCreate(savedInstanceState);**

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

**Country=findViewById(R.id.Country);**

**State=findViewById(R.id.State);**

**City=findViewById(R.id.City);**

**ok=findViewById((R.id.ok));**

**String C[] = {"India","UK","Portugal"};**

**String ii[] = {"Uttar Pradesh","Maharashtra","Rajasthan"};**

**String uu[] = {"England","Scotland","Wales"};**

**String pp[] = {"Lisbon District","Porto District","Algarve District"};**

**String iu[] = {"Lucknow","Kanpur","Agra"};**

**String im[] = {"Pune","Mumbai","Nagpur"};**

**String ir[] = {"Jaipur","Jodhpur","Udaipur"};**

**String ue[] = {"London","Manchester","Bristol"};**

**String us[] = {"Edinburgh","Glasglow","Aberdeen"};**

**String uw[] = {"Cardiff"," St Davids","Newport"};**

**String pl[] = {"Lisbon","Mafra","Loures"};**

**String pc[] = {"Porto","Penafiel","Vila nova de Gaia"};**

**String pa[] = {"Faro","Albufeira","Sagres"};**

**ArrayAdapter<String> a=new ArrayAdapter<String>(getApplicationContext(), android.R.layout.simple\_spinner\_item, C);**

**a.setDropDownViewResource(android.R.layout.simple\_spinner\_dropdown\_item);**

**Country.setAdapter(a);**

**Country.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {**

**@Override**

**public void onItemSelected(AdapterView<?> adapterView, View view, int i, long l) {**

**if(i==0)**

**{**

**ArrayAdapter<String> aa=new ArrayAdapter<String>(getApplicationContext(), android.R.layout.simple\_spinner\_item, ii);**

**aa.setDropDownViewResource(android.R.layout.simple\_spinner\_dropdown\_item);**

**State.setAdapter(aa);**

**State.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {**

**@Override**

**public void onItemSelected(AdapterView<?> adapterView, View view, int i, long l) {**

**if (i == 0)**

**{**

**ArrayAdapter<String> ba=new ArrayAdapter<String>(getApplicationContext(), android.R.layout.simple\_spinner\_item, iu);**

**ba.setDropDownViewResource(android.R.layout.simple\_spinner\_dropdown\_item);**

**City.setAdapter(ba);**

**}**

**if(i==1)**

**{**

**ArrayAdapter<String> bb=new ArrayAdapter<String>(getApplicationContext(), android.R.layout.simple\_spinner\_item, im);**

**bb.setDropDownViewResource(android.R.layout.simple\_spinner\_dropdown\_item);**

**City.setAdapter(bb);**

**}**

**if(i==2)**

**{**

**ArrayAdapter<String> bc=new ArrayAdapter<String>(getApplicationContext(), android.R.layout.simple\_spinner\_item, ir);**

**bc.setDropDownViewResource(android.R.layout.simple\_spinner\_dropdown\_item);**

**City.setAdapter(bc);**

**}**

**}**

**@Override**

**public void onNothingSelected(AdapterView<?> adapterView) {**

**}**

**});**

**}**

**if(i==1)**

**{**

**ArrayAdapter<String> ab=new ArrayAdapter<String>(getApplicationContext(), android.R.layout.simple\_spinner\_item, uu);**

**ab.setDropDownViewResource(android.R.layout.simple\_spinner\_dropdown\_item);**

**State.setAdapter(ab);**

**State.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {**

**@Override**

**public void onItemSelected(AdapterView<?> adapterView, View view, int i, long l) {**

**if (i == 0)**

**{**

**ArrayAdapter<String> ba=new ArrayAdapter<String>(getApplicationContext(), android.R.layout.simple\_spinner\_item, ue);**

**ba.setDropDownViewResource(android.R.layout.simple\_spinner\_dropdown\_item);**

**City.setAdapter(ba);**

**}**

**if(i==1)**

**{**

**ArrayAdapter<String> bb=new ArrayAdapter<String>(getApplicationContext(), android.R.layout.simple\_spinner\_item, us);**

**bb.setDropDownViewResource(android.R.layout.simple\_spinner\_dropdown\_item);**

**City.setAdapter(bb);**

**}**

**if(i==2)**

**{**

**ArrayAdapter<String> bc=new ArrayAdapter<String>(getApplicationContext(), android.R.layout.simple\_spinner\_item, uw);**

**bc.setDropDownViewResource(android.R.layout.simple\_spinner\_dropdown\_item);**

**City.setAdapter(bc);**

**}**

**}**

**@Override**

**public void onNothingSelected(AdapterView<?> adapterView) {**

**}**

**});**

**}**

**if(i==2)**

**{**

**ArrayAdapter<String> ac=new ArrayAdapter<String>(getApplicationContext(), android.R.layout.simple\_spinner\_item, pp);**

**ac.setDropDownViewResource(android.R.layout.simple\_spinner\_dropdown\_item);**

**State.setAdapter(ac);**

**State.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {**

**@Override**

**public void onItemSelected(AdapterView<?> adapterView, View view, int i, long l) {**

**if (i == 0)**

**{**

**ArrayAdapter<String> ba=new ArrayAdapter<String>(getApplicationContext(), android.R.layout.simple\_spinner\_item, pl);**

**ba.setDropDownViewResource(android.R.layout.simple\_spinner\_dropdown\_item);**

**City.setAdapter(ba);**

**}**

**if(i==1)**

**{**

**ArrayAdapter<String> bb=new ArrayAdapter<String>(getApplicationContext(), android.R.layout.simple\_spinner\_item, pc);**

**bb.setDropDownViewResource(android.R.layout.simple\_spinner\_dropdown\_item);**

**City.setAdapter(bb);**

**}**

**if(i==2)**

**{**

**ArrayAdapter<String> bc=new ArrayAdapter<String>(getApplicationContext(), android.R.layout.simple\_spinner\_item, pa);**

**bc.setDropDownViewResource(android.R.layout.simple\_spinner\_dropdown\_item);**

**City.setAdapter(bc);**

**}**

**}**

**@Override**

**public void onNothingSelected(AdapterView<?> adapterView) {**

**}**

**});**

**}**

**}**

**@Override**

**public void onNothingSelected(AdapterView<?> adapterView) {**

**}**

**});**

**ok.setOnClickListener(new View.OnClickListener() {**

**@Override**

**public void onClick(View view) {**

**Toast.makeText(getApplicationContext(), City.getSelectedItem()+ ", "+ State.getSelectedItem()+", "+Country.getSelectedItem().toString(), Toast.LENGTH\_LONG).show();**

**}**

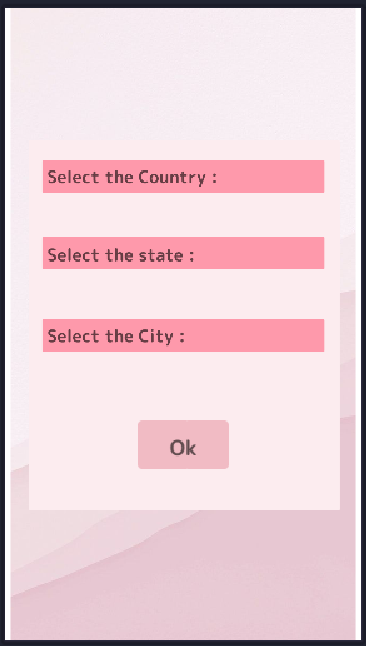
**}**

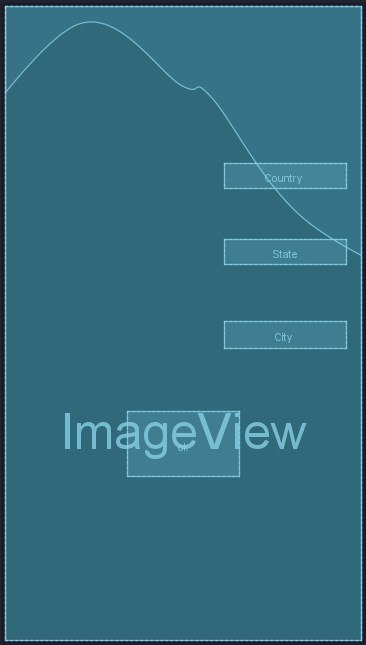
**);**

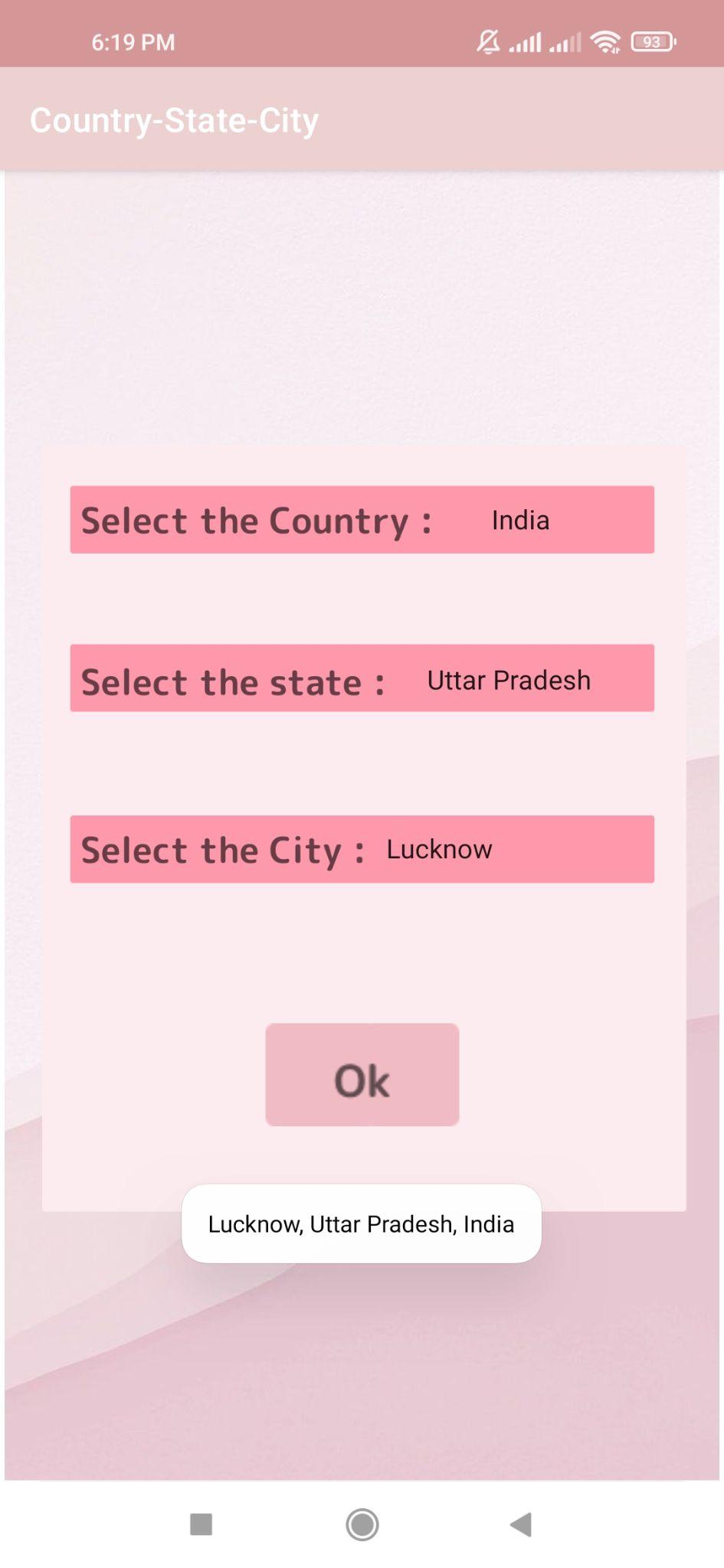
**}**

**}**

**Result:**

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