Assignment No: 05

Create an android app that demonstrates the use of Keyboards, Input Controls, Alerts, and Pickers

Code:-

Activity_main.xml:

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayoutxmlns: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"
android:orientation="vertical"
android:layout_margin="20dp">

<TextView
android:id="@+id/textView"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="4426-Pradepkumar Prajapati"
android:textColor="@color/black"
android:gravity="center"/>

<EditText
android:id="@+id/name"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:inputType="textPersonName"
android:textSize="20dp"
android:hint="NAME"/>

<EditText
android:id="@+id/number"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:inputType="number"
android:textSize="20dp"
android:hint="PHONE"/>

<EditText
android:id="@+id/email"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:inputType="textEmailAddress"
```

```
android:textSize="20dp"
android:hint="EMAIL ADDRESS"/>

<EditText
android:id="@+id/password"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:inputType="textPassword"
android:textSize="20dp"
android:hint="PASSWORD"/>

<LinearLayout
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:orientation="horizontal">
<TextView
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="D.O.B. :"
android:textSize="20dp" />


<!--     <EditText-->
<!--        android:id="@+id/dob"-->
<!--        android:layout_width="wrap_content"-->
<!--        android:layout_height="wrap_content"-->
<!--        android:textSize="20dp"-->
<!--        android:hint="Double-Click to select"/>-->

<EditText
android:id="@+id/dob"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_weight="1"
android:ems="10"
android:inputType="date"
android:hint="01/01/2021"
/>

</LinearLayout>

<RadioGroup
android:id="@+id/rg"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="30dp">

<TextView
android:layout_width="wrap_content"
```

```xml
android:layout_height="wrap_content"
android:text="Gender"
android:textSize="20dp" />

<RadioButton
android:id="@+id/r1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Male"
android:textSize="20dp" />

<RadioButton
android:id="@+id/r2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Female"
android:textSize="20dp" />
</RadioGroup>

<LinearLayout
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:orientation="horizontal">
<TextView
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="I AM "
android:textSize="20dp"/>

<Spinner
android:id="@+id/sp"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
tools:ignore="SpeakableTextPresentCheck,TouchTargetSizeCheck"></Spinner>

</LinearLayout>
<Button
android:id="@+id/bb"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:textSize="30dp"
android:text="DISPLAY"
android:layout_marginTop="30dp"
android:layout_gravity="center"/>

</LinearLayout>
```

MainActivity.java:

```java
package com.example.keyboard;

import androidx.appcompat.app.AppCompatActivity;

import android.app.AlertDialog;
import android.app.DatePickerDialog;
import android.content.DialogInterface;
import android.os.Bundle;
import android.view.View;
import android.widget.Adapter;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Spinner;
import android.widget.Toast;

import java.util.Calendar;

public class MainActivityextends AppCompatActivityimplements
AdapterView.OnItemSelectedListener {

    String TAG = "MainActivity";
String date,mspinner;
String data[] ={"STUDENT" , "WORKING" , "SENIOR CITIZEN"} ;
EditTextname,email,phone,dob;
Spinner sp;
RadioGrouprg;
RadioButtonr;
String rb;
    int rr;
Button b1;
DatePickerDialog.OnDateSetListenermDataListner;

@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);

name=(EditText) findViewById(R.id.name);
phone=(EditText) findViewById(R.id.number);
email=(EditText) findViewById(R.id.email);
dob=(EditText) findViewById(R.id.dob);
sp=(Spinner) findViewById(R.id.sp);
```

```
rg= (RadioGroup) findViewById(R.id.rg);

b1=(Button) findViewById(R.id.bb);

dob.setOnClickListener(new View.OnClickListener() {
@Override

public void onClick(View v) {

        Calendar cal =Calendar.getInstance();
//        Calendar cal = Calendar.getInstance();
int year = cal.get(Calendar.YEAR);
        int month = cal.get(Calendar.MONTH);
        int day = cal.get(Calendar.DAY_OF_MONTH);

DatePickerDialog dialog =new
DatePickerDialog(MainActivity.this,R.style.Theme_AppCompat_DayNight_Dialog_MinWidt
h,mDataListner,
year,month,day);
dialog.show();
}
    });

mDataListner= (datePicker, year, month, day) -> {
        month=month+1;
date=day+"/"+month+"/"+year;
dob.setText(date);

};
sp.setOnItemSelectedListener(this);
ArrayAdapter aa = new
ArrayAdapter(this,R.layout.support_simple_spinner_dropdown_item,data);
aa.setDropDownViewResource(R.layout.support_simple_spinner_dropdown_item);
sp.setAdapter(aa);

b1.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
rr= rg.getCheckedRadioButtonId();
        if (rr!=-1)
        {
r=(RadioButton)findViewById(rr);
rb=r.getText().toString();
}
AlertDialog.Buildermyalert = new AlertDialog.Builder(MainActivity.this);
myalert.setTitle("Alert");
myalert.setMessage("Click Ok to continue or else cancel");
```

```java
myalert.setNegativeButton("cancel", new DialogInterface.OnClickListener() {
@Override
public void onClick(DialogInterface dialog, int which) {
Toast.makeText(MainActivity.this,"YOU CANCELLED",Toast.LENGTH_LONG).show();
}
        });
myalert.setPositiveButton("OK",newDialogInterface.OnClickListener() {
@Override
public void onClick(DialogInterface dialog, int which) {
            String Display = "name"+name.getText().toString()+"\n
phone"+phone.getText().toString()+
"\n email"+ email.getText().toString()+"\n gender"+rb+"\ndob"+date+"\n who am
I"+mspinner;
Toast.makeText(MainActivity.this,Display,Toast.LENGTH_LONG).show();
}
        });

myalert.show();
}
    });

}

@Override
public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {
mspinner= sp.getSelectedItem().toString();
}

@Override
public void onNothingSelected(AdapterView<?> parent) {

  }
}
```

Output: