**Assignment No: 05**

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

**Code:-**

**Activity\_main.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"  
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:**

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\_MinWidth*,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");  
  
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:**

