**PRACTICAL NO: 5**

**Aim:** Create an android app that demonstrates the use of Keyboards, Input Controls, Alerts, Pickers and Options Menu.

Android\_main.xml:

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

<RelativeLayout 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">

<EditText

android:id="@+id/editTextTextPersonName"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:hint="NAME"

android:textSize="25dp"

android:layout\_marginTop="25dp"

android:text="" />

<EditText

android:id="@+id/editTextPhone"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:layout\_marginTop="70dp"

android:textSize="25dp"

android:hint="PHONE"

android:inputType="phone" />

<EditText

android:id="@+id/editTextTextEmailAddress"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:layout\_marginTop="120dp"

android:textSize="25dp"

android:hint="EMAIL ADDRESS"

android:inputType="textEmailAddress" />

<EditText

android:id="@+id/editTextTextPassword"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="PASSWORD"

android:textSize="25dp"

android:layout\_marginTop="170dp"

android:inputType="textPassword" />

<TextView

android:id="@+id/textView2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="220dp"

android:textSize="25dp"

android:text="D.O.B:" />

<EditText

android:id="@+id/editTextDate"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:textSize="20dp"

android:layout\_marginTop="215dp"

android:layout\_marginLeft="65dp"

android:hint="Double-Click to Select"

android:inputType="date" />

<TextView

android:id="@+id/textView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="25dp"

android:layout\_marginTop="270dp"

android:text="Gender" />

<RadioGroup

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" />

<RadioButton

android:id="@+id/radioButton"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="25dp"

android:layout\_marginTop="300dp"

android:text="Male" />

<RadioButton

android:id="@+id/radioButton2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="25dp"

android:layout\_marginTop="330dp"

android:text="Female" />

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="25dp"

android:layout\_marginTop="400dp"

android:layout\_marginLeft="135dp"

android:text="Button" />

</RelativeLayout>

MainActivity.java:

package com.example.Practical5;

import androidx.appcompat.app.AppCompatActivity;

import android.app.AlertDialog;

import android.app.DatePickerDialog;

import android.content.DialogInterface;

import android.os.Bundle;

import android.view.Menu;

import android.view.MenuItem;

import android.view.View;

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 MainActivity extends AppCompatActivity implements View.OnClickListener {

String date, spinner;

String[] data = {"Student", "Working", "Senior Citizen"};

EditText name, phone, email, dob;

RadioGroup rg;

RadioButton rb;

AlertDialog.Builder builder;

Button b1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

builder =new AlertDialog.Builder(this);

name = (EditText) findViewById(R.id.name);

phone = (EditText) findViewById(R.id.number);

email = (EditText) findViewById(R.id.email);

dob = (EditText) findViewById(R.id.dob);

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

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

dob.setOnClickListener(this);

}

@Override

public boolean onCreateOptionsMenu(Menu menu) {

getMenuInflater().inflate(R.menu.mymenu, menu);

return true;

}

@Override

public boolean onOptionsItemSelected(MenuItem item) {

switch (item.getItemId()) {

case R.id.msg:

Toast.makeText(this, item.getTitle(), Toast.LENGTH\_SHORT).show();

return true;

case R.id.call:

Toast.makeText(this, item.getTitle(), Toast.LENGTH\_SHORT).show();

return true;

default:

return super.onOptionsItemSelected(item);

}

}

@Override

public void onClick(View v) {

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 datePickerDialog = new DatePickerDialog

(

MainActivity.this,

new DatePickerDialog.OnDateSetListener() {

@Override

public void onDateSet(DatePicker view, int year,

int monthOfYear, int dayOfMonth) {

// on below line we are setting date to our edit text.

dob.setText(dayOfMonth + "-" + (monthOfYear + 1) + "-" + year);

}

},

// on below line we are passing year,

// month and day for selected date in our date picker.

year, month, day);

// at last we are calling show to

// display our date picker dialog.

datePickerDialog.show();

}

public void showDetails(View view) {

int r=rg.getCheckedRadioButtonId();

rb=(RadioButton)findViewById(r);

String str = rb.getText().toString();

String display="name"+name.getText().toString()+

"\n phone"+phone.getText().toString()+

"\n email"+email.getText().toString()+

"\n gender"+str+"\n dob"+date;

Toast.makeText(this,display,Toast.LENGTH\_SHORT).show();

builder.setMessage("Do you want to submit the application?");

builder.setCancelable(false);

builder.setPositiveButton("Yes", new DialogInterface.OnClickListener() {

@Override

public void onClick(DialogInterface dialog, int which) {

finish();

Toast.makeText(getApplicationContext(),

"you choose Yes action for alertbox",

Toast.LENGTH\_SHORT).show();

}

});

builder.setNegativeButton("No", new DialogInterface.OnClickListener() {

@Override

public void onClick(DialogInterface dialog, int which) {

dialog.cancel();

Toast.makeText(getApplicationContext(),"you choose No action for alertbox",

Toast.LENGTH\_SHORT).show();

}

});

//Creating dialog box

AlertDialog alert = builder.create();

//Setting the title manually

alert.setTitle("AlertDialog Example");

alert.show();

}

}

menu/menu\_main.xml:

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

<menu xmlns:app="http://schemas.android.com/apk/res-auto"

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

<item android:title="Send"

android:icon="@drawable/ic\_baseline\_send\_24"

app:showAsAction="always"

/>

<item android:title="Call"

android:icon="@drawable/ic\_baseline\_call\_24"

app:showAsAction="always"/>

</menu>

Output:

 

 