CO1

Login form

Activity main

*<?*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="wrap\_content"  
 tools:context=".MainActivity">  
  
 <LinearLayout  
 android:layout\_width="396dp"  
 android:layout\_height="153dp"  
 android:orientation="vertical"  
 tools:layout\_editor\_absoluteX="10dp"  
 tools:layout\_editor\_absoluteY="217dp">  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="52dp"  
 android:orientation="horizontal">  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Username" />  
  
 <EditText  
 android:id="@+id/usern"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text=" " />  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="47dp"  
 android:orientation="horizontal">  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Password" />  
  
 <EditText  
 android:id="@+id/pass"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="" />  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal">  
  
 <Button  
 android:id="@+id/button3"  
 android:layout\_width="176dp"  
 android:layout\_height="match\_parent"  
 android:onClick="click"  
 android:text="Login" />  
 </LinearLayout>  
  
 </LinearLayout>  
</androidx.constraintlayout.widget.ConstraintLayout>

Main Activity

*<?*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="wrap\_content"  
 tools:context=".MainActivity">  
  
 <LinearLayout  
 android:layout\_width="396dp"  
 android:layout\_height="153dp"  
 android:orientation="vertical"  
 tools:layout\_editor\_absoluteX="10dp"  
 tools:layout\_editor\_absoluteY="217dp">  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="52dp"  
 android:orientation="horizontal">  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Username" />  
  
 <EditText  
 android:id="@+id/usern"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text=" " />  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="47dp"  
 android:orientation="horizontal">  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Password" />  
  
 <EditText  
 android:id="@+id/pass"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="" />  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal">  
  
 <Button  
 android:id="@+id/button3"  
 android:layout\_width="176dp"  
 android:layout\_height="match\_parent"  
 android:onClick="click"  
 android:text="Login" />  
 </LinearLayout>  
  
 </LinearLayout>  
</androidx.constraintlayout.widget.ConstraintLayout>

**Activity life**

Activity main

*<?*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">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Hello World!"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

Main activity

package com.example.myapp1;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 Toast.*makeText*(this, "onCreate", Toast.*LENGTH\_SHORT*).show();  
 }  
 @Override  
 protected void onStart(){  
 super.onStart();  
 Toast.*makeText*(this, "onStart", Toast.*LENGTH\_SHORT*).show();  
 }  
 @Override  
 protected void onResume(){  
 super.onResume();  
 Toast.*makeText*(this, "onResume", Toast.*LENGTH\_SHORT*).show();  
 }  
 @Override  
 protected void onRestart(){  
 super.onRestart();  
 Toast.*makeText*(this, "onRestart", Toast.*LENGTH\_SHORT*).show();  
 }  
 @Override  
 protected void onPause(){  
 super.onPause();  
 Toast.*makeText*(this, "onPause", Toast.*LENGTH\_SHORT*).show();  
 }  
 @Override  
 protected void onStop(){  
 super.onStop();  
 Toast.*makeText*(this, "onStop", Toast.*LENGTH\_SHORT*).show();  
 }  
 @Override  
 protected void onDestroy(){  
 super.onDestroy();  
 Toast.*makeText*(this, "onDestroy", Toast.*LENGTH\_SHORT*).show();  
 }  
}

**simple calculator**

activity main

*<?*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">  
  
 <LinearLayout  
 android:layout\_width="409dp"  
 android:layout\_height="729dp"  
 android:orientation="vertical"  
 tools:layout\_editor\_absoluteX="1dp"  
 tools:layout\_editor\_absoluteY="1dp">  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal">  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Number !" />  
  
 <EditText  
 android:id="@+id/f1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="" />  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal">  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Number 2" />  
  
 <EditText  
 android:id="@+id/f2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="" />  
 </LinearLayout>  
  
 <TableRow  
 android:layout\_width="441dp"  
 android:layout\_height="52dp">  
  
 <Button  
 android:id="@+id/add"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:onClick="add"  
 android:text="ADD" />  
  
 <Button  
 android:id="@+id/sub"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:onClick="sub"  
 android:text="SUB" />  
  
 <Button  
 android:id="@+id/mul"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:onClick="mul"  
 android:text="MUL" />  
  
 <Button  
 android:id="@+id/div"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:onClick="div"  
 android:text="DIV" />  
 </TableRow>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="32dp"  
 android:orientation="horizontal">  
  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Result" />  
  
 <TextView  
 android:id="@+id/result"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="" />  
  
 </LinearLayout>  
 </LinearLayout>  
</androidx.constraintlayout.widget.ConstraintLayout>

Main activity

package com.example.myappcal;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
public class MainActivity extends AppCompatActivity {  
 EditText Firtnum,Secnum;  
 TextView res;  
 Button Btnadd,Btnsub,Btnmul,Btndiv;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 Firtnum=findViewById(R.id.*f1*);  
 Secnum=findViewById(R.id.*f2*);  
 res=findViewById(R.id.*result*);  
 Btnadd=findViewById(R.id.*add*);  
 Btnsub=findViewById(R.id.*sub*);  
 Btnmul=findViewById(R.id.*mul*);  
 Btndiv=findViewById(R.id.*div*);  
 }  
  
 public void add(View view) {  
 int num1=Integer.*parseInt*(Firtnum.getText().toString());  
 int num2=Integer.*parseInt*(Secnum.getText().toString());  
 int sum = num1+num2;  
  
 res.setText(sum+"");  
 }  
  
 public void sub(View view) {  
 int num1=Integer.*parseInt*(Firtnum.getText().toString());  
 int num2=Integer.*parseInt*(Secnum.getText().toString());  
 int sum = num1-num2;  
  
 res.setText(sum+"");  
 }  
  
 public void mul(View view) {  
 int num1=Integer.*parseInt*(Firtnum.getText().toString());  
 int num2=Integer.*parseInt*(Secnum.getText().toString());  
 int sum = num1\*num2;  
  
 res.setText(sum+"");  
 }  
  
 public void div(View view) {  
 int num1=Integer.*parseInt*(Firtnum.getText().toString());  
 int num2=Integer.*parseInt*(Secnum.getText().toString());  
 int sum = num1/num2;  
  
 res.setText(sum+"");  
  
 }  
}

**validations**

activity main

*<?*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">  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:layout\_editor\_absoluteX="-16dp"  
 tools:layout\_editor\_absoluteY="-48dp">  
  
 <LinearLayout  
 android:layout\_width="407dp"  
 android:layout\_height="45dp"  
 android:orientation="horizontal">  
  
 <EditText  
 android:id="@+id/fname"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="First Name" />  
  
 <EditText  
 android:id="@+id/lname"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="Last Name" />  
  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="413dp"  
 android:layout\_height="48dp"  
 android:orientation="horizontal">  
  
 <TextView  
 android:id="@+id/textView9"  
 android:layout\_width="51dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Password" />  
  
 <EditText  
 android:id="@+id/passw"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:ems="10"  
 android:inputType="textPassword" />  
  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="408dp"  
 android:layout\_height="42dp"  
 android:orientation="horizontal">  
  
 <TextView  
 android:id="@+id/textView8"  
 android:layout\_width="57dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Email" />  
  
 <EditText  
 android:id="@+id/email"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:ems="10"  
 android:inputType="textEmailAddress" />  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="55dp"  
 android:orientation="horizontal">  
  
 <TextView  
 android:id="@+id/textView11"  
 android:layout\_width="53dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Date of Birth" />  
  
 <EditText  
 android:id="@+id/dat"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:ems="10"  
 android:hint="dd/mm/yyyy"  
 android:inputType="date" />  
  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="111dp"  
 android:orientation="horizontal">  
  
 <RadioGroup  
 android:id="@+id/gp"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent">  
  
 <RadioButton  
 android:id="@+id/rb1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="35dp"  
 android:text="Male" />  
  
 <RadioButton  
 android:id="@+id/rb2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="34dp"  
 android:text="Female" />  
  
 <RadioButton  
 android:id="@+id/rb3"  
 android:layout\_width="424dp"  
 android:layout\_height="wrap\_content"  
 android:text="Other" />  
 </RadioGroup>  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="410dp"  
 android:layout\_height="50dp"  
 android:orientation="horizontal">  
  
 <CheckBox  
 android:id="@+id/chb"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="All are correct" />  
  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="413dp"  
 android:layout\_height="56dp"  
 android:orientation="horizontal">  
  
 <Button  
 android:id="@+id/btn1"  
 android:onClick="register"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Register" />  
  
 </LinearLayout>  
  
 </LinearLayout>  
  
</androidx.constraintlayout.widget.ConstraintLayout>

Main activity

package com.example.validation;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.CheckBox;  
import android.widget.EditText;  
import android.widget.RadioButton;  
import android.widget.RadioGroup;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
  
 EditText first,second,emailt,pass;  
 RadioButton male,female,other;  
 CheckBox c;  
 RadioGroup g;  
 Boolean val;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 first=findViewById(R.id.*fname*);  
 second=findViewById(R.id.*lname*);  
 emailt=findViewById(R.id.*email*);  
*// dob=findViewById(R.id.txtdob);* pass=findViewById(R.id.*passw*);  
 male=findViewById(R.id.*rb1*);  
 female=findViewById(R.id.*rb2*);  
 other=findViewById(R.id.*rb3*);  
 g=findViewById(R.id.*gp*);  
 c=findViewById(R.id.*chb*);  
 }  
 public void register(View view) {  
 val=validate();  
 if(val)  
 {  
 Toast.*makeText*(this, "Registered Successfull", Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
 private boolean validate() {  
  
 if(emailt.length() == 0) {  
 emailt.setError("required");  
 }  
 else  
 {  
 String s\_email=emailt.getText().toString();  
 String checkmail="[a-zA-Z0-9.\_-]+@[a-z]+@[a-z]+.+[a-z]+";  
 if(!s\_email.matches(checkmail)) {  
 emailt.setError("Invalid email");  
 return false;  
 }  
 }  
  
 if(pass.length()==0)  
 {  
 pass.setError("Required");  
 }  
 else if(pass.length()<8) {  
 pass.setError("password must be minimum 8 characters");  
 }  
  
 if(first.length()==0)  
 {  
 first.setError("Required");  
 return false;  
 }  
 if(second.length()==0)  
 {  
 second.setError("Required");  
 return false;  
 }  
*// if(dob.length()==0)  
// {  
// dob.setError("Required");  
// return false;  
// }* if(g.getCheckedRadioButtonId()== -1)  
 {  
 other.setError("Select gender");  
 other.requestFocus();  
 return false;  
 }  
 if(!c.isChecked())  
 {  
 c.setError("Please agree");  
 c.requestFocus();  
 return false;  
 }  
  
 return true;  
  
 }  
  
  
  
}

**date**

activity main

*<?*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">  
  
 <LinearLayout  
 android:layout\_width="414dp"  
 android:layout\_height="113dp"  
 android:orientation="vertical"  
 tools:layout\_editor\_absoluteX="1dp"  
 tools:layout\_editor\_absoluteY="1dp">  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="64dp"  
 android:orientation="horizontal">  
  
 <EditText  
 android:id="@+id/t1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="dd/mm/yyyy" />  
  
 <Button  
 android:id="@+id/b1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:onClick="onClick"  
 android:text="Button" />  
 </LinearLayout>  
  
 </LinearLayout>  
</androidx.constraintlayout.widget.ConstraintLayout>

Main activity

package com.example.mydate;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.app.DatePickerDialog;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.DatePicker;  
import android.widget.EditText;  
  
import java.util.Calendar;  
  
public class MainActivity extends AppCompatActivity {  
  
 EditText dateText;  
 public DatePickerDialog datepicker;  
 Button pickdate;  
 int day, month, year;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 dateText = findViewById(R.id.*t1*);  
  
 pickdate = findViewById(R.id.*b1*);  
 pickdate.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Calendar calendar = Calendar.*getInstance*();  
  
 day = calendar.get(Calendar.*DAY\_OF\_MONTH*);  
 month = calendar.get(Calendar.*MONTH*);  
 year = calendar.get(Calendar.*YEAR*);  
 datepicker = new DatePickerDialog(MainActivity.this, new DatePickerDialog.OnDateSetListener() {  
 @Override  
 public void onDateSet(DatePicker datePicker, int day, int month, int year) {  
 dateText.setText(day + "/" + (month + 1) + "/" + year);  
  
 }  
 }, year, month, day);  
 datepicker.show();  
 }  
 });  
  
 }  
}

