Lab 5

**activity\_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"**>  
  
 <**TextView  
 android:id="@+id/header"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="132dp"  
 android:layout\_marginBottom="585dp"  
 android:text="Vote Eligibility"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toTopOf="@+id/nameBox"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**TextView  
 android:id="@+id/nameLbl"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="303dp"  
 android:layout\_marginBottom="480dp"  
 android:text="User Name"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toTopOf="@+id/aadharLbl"  
 app:layout\_constraintEnd\_toStartOf="@+id/nameBox"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/header"** />  
  
 <**EditText  
 android:id="@+id/nameBox"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="47dp"  
 android:layout\_marginBottom="465dp"  
 android:ems="10"  
 android:hint="Enter Username"  
 android:inputType="text"  
 android:minHeight="48dp"  
 app:layout\_constraintBottom\_toTopOf="@+id/aadharBox"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toEndOf="@+id/nameLbl"  
 app:layout\_constraintTop\_toBottomOf="@+id/header"** />  
  
 <**TextView  
 android:id="@+id/aadharLbl"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="303dp"  
 android:layout\_marginBottom="412dp"  
 android:text="Aadhar No."  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toTopOf="@+id/dobLbl"  
 app:layout\_constraintEnd\_toStartOf="@+id/aadharBox"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/nameLbl"** />  
  
 <**EditText  
 android:id="@+id/aadharBox"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="46dp"  
 android:layout\_marginBottom="395dp"  
 android:ems="10"  
 android:hint="Enter Aadhar Number"  
 android:inputType="number"  
 android:minHeight="48dp"  
 app:layout\_constraintBottom\_toTopOf="@id/dateBox"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toEndOf="@+id/aadharLbl"  
 app:layout\_constraintTop\_toBottomOf="@+id/nameBox"** />  
  
 <**TextView  
 android:id="@+id/dobLbl"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="295dp"  
 android:layout\_marginBottom="340dp"  
 android:text="Date of Birth"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toTopOf="@+id/checkBtn"  
 app:layout\_constraintEnd\_toStartOf="@+id/dateBox"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/aadharLbl"** />  
  
 <**EditText  
 android:id="@+id/dateBox"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="46dp"  
 android:layout\_marginBottom="330dp"  
 android:ems="10"  
 android:hint="Select Date"  
 android:inputType="date"  
 android:minHeight="48dp"  
 app:layout\_constraintBottom\_toTopOf="@+id/checkBtn"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toEndOf="@+id/dobLbl"  
 app:layout\_constraintTop\_toBottomOf="@+id/aadharBox"** />  
  
 <**Button  
 android:id="@+id/checkBtn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="162dp"  
 android:layout\_marginBottom="183dp"  
 android:onClick="checkEligibility"  
 android:text="Check"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/aadharBox"** />  
</**RelativeLayout**>

**MainActivity.java**

**package** com.example.agecalcdpd;  
**import** androidx.appcompat.app.AppCompatActivity;  
**import** android.annotation.SuppressLint;  
**import** android.app.DatePickerDialog;  
**import** android.content.Intent;  
**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 **name**, **num**, **date**;  
 Button **btn**;  
 **int diff**;  
 @SuppressLint(**"MissingInflatedId"**)  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 **name** = findViewById(R.id.*nameBox*);  
 **num** = findViewById(R.id.*aadharBox*);  
 **date** = findViewById(R.id.*dateBox*);  
 **date**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 Calendar c = Calendar.*getInstance*();  
 **int** pYear = c.get(Calendar.***YEAR***);  
 **int** pMonth = c.get(Calendar.***MONTH***);  
 **int** pDate = c.get(Calendar.***DATE***);  
 DatePickerDialog dialog = **new** DatePickerDialog(MainActivity.**this**,  
 android.R.style.***Theme\_DeviceDefault\_DialogWhenLarge***, **new** DatePickerDialog.OnDateSetListener() {  
 @Override  
 **public void** onDateSet(DatePicker view, **int** year, **int** month, **int** dayOfMonth) {  
 **date**.setText(dayOfMonth+**"/"**+(month+1)+**"/"**+year);  
 **diff** = pYear - year;  
 }  
 },pYear, pMonth, pDate);  
 dialog.show();  
 }  
 });  
 }  
 **public void** checkEligibility(View v) {  
 String s\_name = **name**.getText().toString();  
 String s\_num = **num**.getText().toString();  
 Intent in = **new** Intent(getApplicationContext(), ResultActivity.**class**);  
 in.putExtra(**"NAME"**,s\_name);  
 in.putExtra(**"AADHAR"**,s\_num);  
 in.putExtra(**"AGE"**,**diff**);  
 startActivity(in);  
 }  
}

To create activity inside and activity

1. Click on java, dropdown occurs.
2. Right click on the package (ex. Com.example.agecalc)
3. After right click, click on new -> activity -> empty views activity
4. Change the name and click on finish. You can find the newly created activity in java folder under MainActivity.java

activity\_result.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=".ResultActivity"**>  
  
 <**TextView  
 android:id="@+id/result"  
 android:layout\_width="259dp"  
 android:layout\_height="145dp"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="78dp"  
 android:layout\_marginBottom="292dp"  
 android:gravity="center\_horizontal"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
</**RelativeLayout**>

ResultActivity.java

**package** com.example.agecalcdpd;  
**import** androidx.appcompat.app.AppCompatActivity;  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.widget.TextView;  
**public class** ResultActivity **extends** AppCompatActivity {  
 TextView **res**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_result*);  
 **res** = findViewById(R.id.*result*);  
 Intent intt = getIntent();  
 String r\_name = intt.getStringExtra(**"NAME"**);  
 String r\_aadhar = intt.getStringExtra(**"AADHAR"**);  
 **int** age = intt.getIntExtra(**"AGE"**,0);  
 **if**(age>=18)  
 **res**.setText(**"Name: "**+r\_name+**"\nAadhar Number: "**+r\_aadhar+**"\n You are eligible to vote"**);  
 **else  
 res**.setText(**"Name: "**+r\_name+**"\nAadhar Number: "**+r\_aadhar+**"\n You are not eligible to vote"**);  
 }  
}

Output

 

 