



EXPERIMENT 5:Voter Eligibility

1.Design (XML File) of First activity (activity_main.xml)

```
<?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"
android:background="@drawable/img">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Checking Voter Eligibility"
        android:textColor="#3C012B"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.022" />

    <EditText
        android:id="@+id/editTextText"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="66dp"
        android:ems="10"
        android:hint="Enter name/Aadhar ID:"
        android:inputType="text"
        android:minHeight="48dp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView" />

    <EditText
        android:id="@+id/editTextText2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="22dp"
        android:ems="10"
```

```

        android:hint="DOB:"
        android:inputType="text"
        android:minHeight="48dp"
        app:layout_constraintEnd_toEndOf="@+id/editTextText"
        app:layout_constraintStart_toStartOf="@+id/editTextText"
        app:layout_constraintTop_toBottomOf="@+id/editTextText" />

```

```

<Button

```

```

    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="46dp"
    android:backgroundTint="#131861"
    android:text="Submit"
    app:layout_constraintEnd_toEndOf="@+id/editTextText2"
    app:layout_constraintStart_toStartOf="@+id/editTextText2"
    app:layout_constraintTop_toBottomOf="@+id/editTextText2" />

```

```

</androidx.constraintlayout.widget.ConstraintLayout>

```



2.JAVA File (MainActivity.java)

```
package com.example.votere;

import androidx.appcompat.app.AppCompatActivity;

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 android.widget.Toast;

import java.util.Calendar;

public class MainActivity extends AppCompatActivity {
    EditText editTextText;
    EditText editTextText2;
    Button button;
    int diff;
    String limit;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        editTextText=findViewById(R.id.editTextText);
        editTextText2=findViewById(R.id.editTextText2);
        button=findViewById(R.id.button);
        editTextText2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Calendar c = Calendar.getInstance();
                int pYear = c.get(Calendar.YEAR);
                int pMonth = c.get(Calendar.MONTH);
                int pDate = c.get(Calendar.DATE);

                DatePickerDialog datePickerDialog = new
                DatePickerDialog(MainActivity.this,
                android.R.style.Theme_DeviceDefault_Dialog, new
                DatePickerDialog.OnDateSetListener() {

                    @Override
                    //DatePicker datePicker,int year,int month,int
                    dayOfMonth
                    public void onDateSet(DatePicker datePicker, int i, int
                    i1, int i2) {
                        editTextText2.setText(i2 + "/" + (i1 + 1) + "/" +
                        i);//date form using /
                        diff = pYear - i;
                    }
                }, pYear, pMonth, pDate);

                datePickerDialog.show();//dialog will be shown
            }
        });
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intent=new Intent(MainActivity.this, Activity2.class);
```

```

        String name=editTextText.getText().toString();
        int age=diff;
        intent.putExtra("Name",name);
        intent.putExtra("Age",age);
        startActivity(intent);
        if(diff>18)
            limit="Eligible";
        else
            limit="Not Eligible";

        Toast.makeText(MainActivity.this,editTextText.getText().toString()+limit,Toast.LENGTH_LONG).show();
    }
});
}
}

```

3.Design (XML File) of second activity(activity_main2.xml)

```

<?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=".Activity2"
    android:background="#62E0B4">

    <TextView
        android:id="@+id/textView2"
        android:layout_width="235dp"
        android:layout_height="74dp"
        android:layout_marginTop="81dp"
        android:layout_marginBottom="162dp"
        android:text="Checking voter eligibility"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/textView3"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/textView3"
        android:layout_width="218dp"
        android:layout_height="0dp"
        android:layout_marginBottom="278dp"
        android:text="Details:"
        android:textColor="#B70534"
        android:textSize="16sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
    >

```

```
app:layout_constraintTop_toBottomOf="@+id/textView2" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

4.JAVA File(MainActivity2.java)

```
Package com.example.votere;

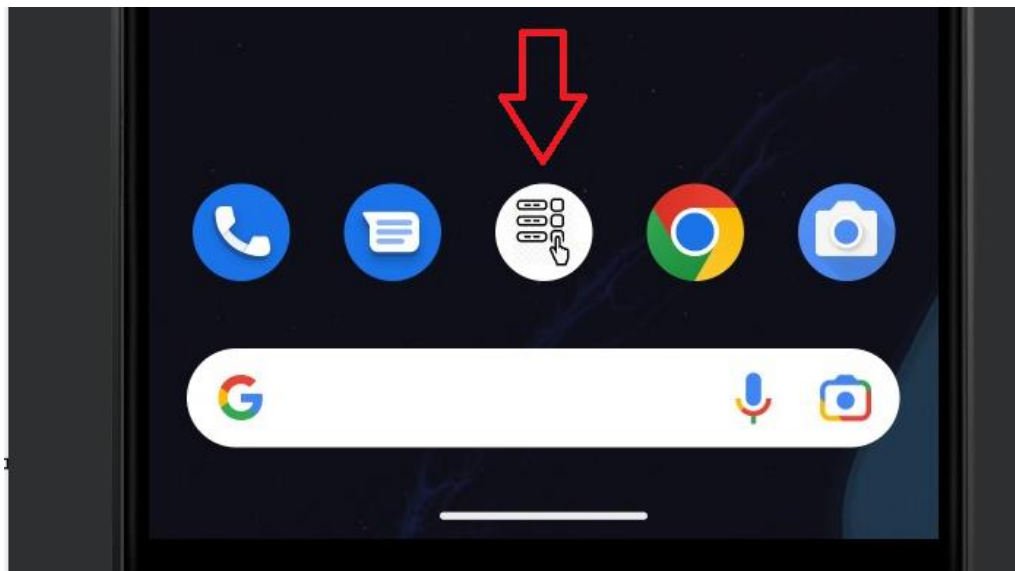
import androidx.appcompat.app.AppCompatActivity;

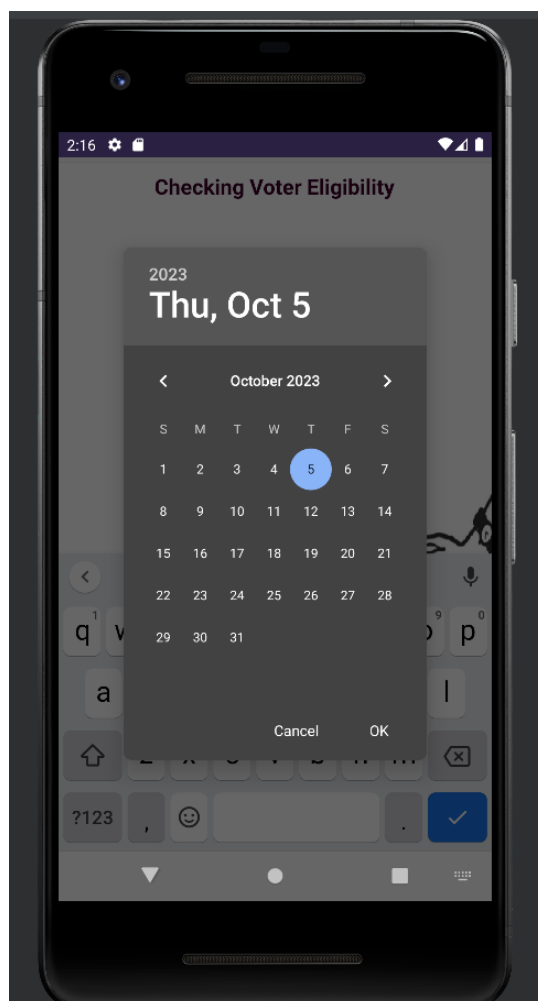
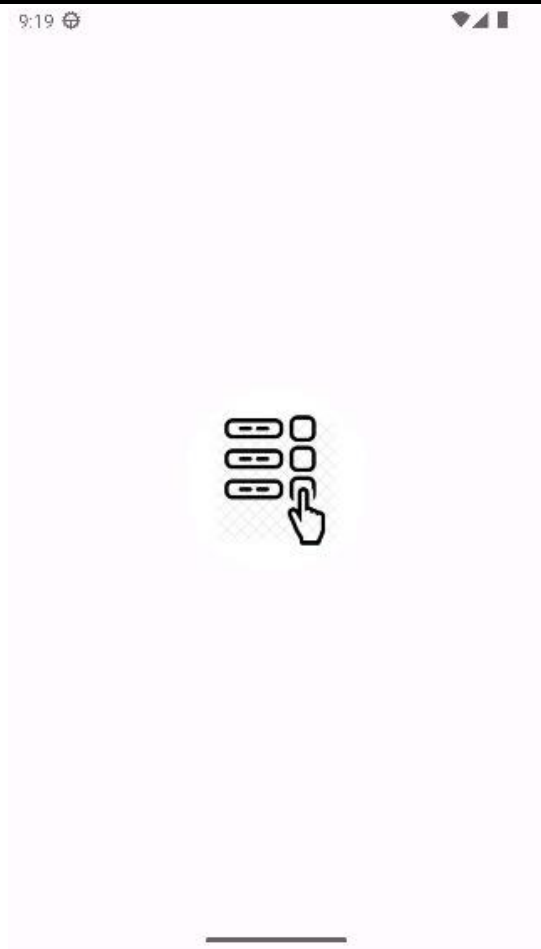
import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;
import android.widget.Toast;

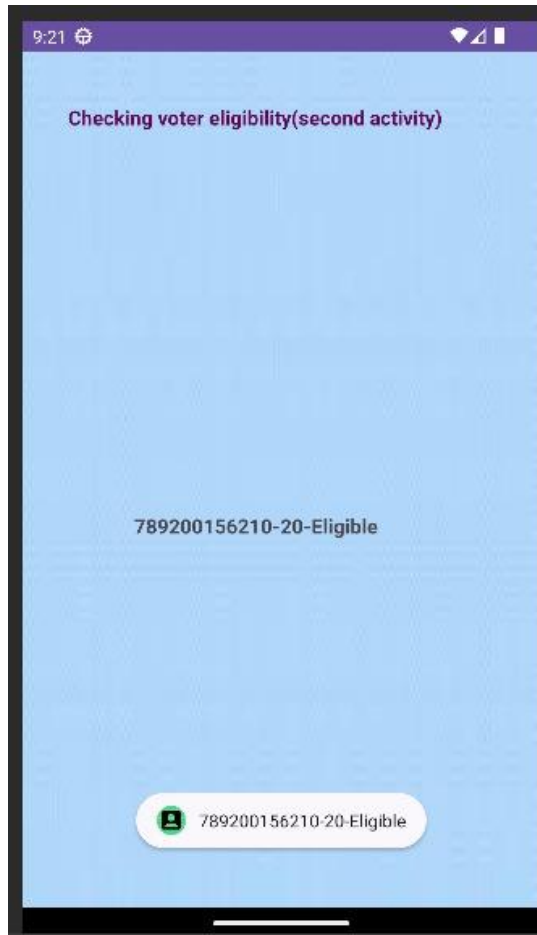
public class Activity2 extends AppCompatActivity {

    TextView textView3;
    String limit;
    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_2);
        textView3=findViewById(R.id.textView3);
        Intent intent=getIntent();
        String name=intent.getStringExtra("Name");
        int age=intent.getIntExtra("Age",0);
        Toast.makeText(this,name+"-"+age+"-
"+limit,Toast.LENGTH_LONG).show();
        textView3.setText(name+"-"+age+"-"+limit);
        /* if(age>18)
            limit="Eligible";
        else
            limit="Not Eligible";*/
    }
}
```

5.Output in the emulator







AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.EX_5"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity2"
            android:exported="false"
        />
        <activity
            android:name=".MainActivity"
            android:exported="true"
            android:icon="@mipmap/img">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```

```
        <category android:name="android.intent.category.LAUNCHER"
/>
    </intent-filter>
</activity>
</application>
</manifest>
```