

Experiment 5: Aim: Design an application to check the user is eligibility to vote or not by reading the data of birth and aadhar card number.

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">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="56dp"
        android:text="Vote Eligibility"
        android:textSize="24sp"
        android:textStyle="bold"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <EditText
        android:id="@+id/editTextname"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="78dp"
        android:ems="10"
        android:hint="Enter your name"
        android:inputType="text"
        app:layout_constraintBottom_toTopOf="@+id/editTextaadhaar"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <EditText
        android:id="@+id/editTextaadhaar"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginEnd="2dp"
        android:layout_marginBottom="70dp"
        android:ems="10"
        android:hint="Enter your Aadhaar No"
        android:inputType="text"
        app:layout_constraintBottom_toTopOf="@+id/editTextdob"
        app:layout_constraintEnd_toEndOf="@+id/editTextdob" />

    <EditText
        android:id="@+id/editTextdob"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="260dp"
        android:ems="10"
        android:hint="Enter your Date of Birth"
        android:inputType="text"
        app:layout_constraintBottom_toBottomOf="parent" />
```

```

        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="85dp"
    android:text="Check"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextdob" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

MainActivity.java

```

package com.example.voteeligibility05;

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 java.util.Calendar;

public class MainActivity extends AppCompatActivity {
    int diff;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        EditText nameedittext=findViewById(R.id.editTextname);
        EditText aadhaaredittext=findViewById(R.id.editTextaadhaar);
        EditText dobedittext=findViewById(R.id.editTextdob);
        Button checkbutton=findViewById(R.id.button);

        dobedittext.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 datePicker=new DatePickerDialog(
                    MainActivity.this,

android.R.style.Theme_DeviceDefault_DialogWhenLarge,
                    new DatePickerDialog.OnDateSetListener() {
                        @Override
                        public void onDateSet(DatePicker datePicker, int year,
int month, int date) {
                            diff=pyear-year;
                            dobedittext.setText(date+"/"+month+"/"+

```

```

        year);
    }
    }, pyear, pmonth, pdate);
    datepicker.show();
}
});

checkboxbutton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        String name=nameedittext.getText().toString();
        String aadhaar=aadhaaredittext.getText().toString();
        int age=Integer.parseInt(dobedittext.getText().toString());

        Intent i=new Intent(getApplicationContext(),
ResultActivity.class);
        i.putExtra("NAME", name);
        i.putExtra("AADHAAR", aadhaar);
        i.putExtra("AGE", diff);
        startActivity(i);

    }
});
}
}

```

activity_result.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=".ResultActivity">

    <TextView
        android:id="@+id/textViewresult"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="328dp"
        android:textSize="20sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

ResultActivity.java

```

package com.example.voteeligibility05;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

```

```

import org.w3c.dom.Text;

public class ResultActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_result);

        Intent i=getIntent();
        String name=i.getStringExtra("NAME");
        String aadhaar=i.getStringExtra("AADHAAR");
        int age=i.getIntExtra("AGE",0);

        TextView resulttextView=
            findViewById(R.id.textViewresult);

        if(age>=18)
            resulttextView.setText("Name:"+name+
                "\nAadhaar No:"+aadhaar+
                "\nIs Eligible to vote");
        else
            resulttextView.setText("Name:"+name+
                "\nAadhaar No:"+aadhaar+" " +
                "\nIs Not Eligible to vote");
    }
}

```

Experiment 6: Aim: Design an application to order the cake by selecting the date and time and display the order details in another 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">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="52dp"
        android:text="Cake App"
        android:textSize="24sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="56dp"

```

```
    android:text="Flavour"
    android:textSize="20sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.066"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView" />
```

```
<TextView
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="56dp"
    android:text="Date"
    android:textSize="20sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.062"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/spinner" />
```

```
<TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="36dp"
    android:text="Time"
    android:textSize="20sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.043"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/imageViewcalendar" />
```

```
<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="52dp"
    android:text="Place order"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/imageViewclock" />
```

```
<ImageView
    android:id="@+id/imageViewcalendar"
    android:layout_width="127dp"
    android:layout_height="82dp"
    android:layout_marginTop="92dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/spinner"
    app:srcCompat="@drawable/calendar" />
```

```
<ImageView
    android:id="@+id/imageViewclock"
    android:layout_width="171dp"
    android:layout_height="119dp"
    android:layout_marginTop="36dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/imageViewcalendar"
    app:srcCompat="@drawable/clock" />
```

```

<Spinner
    android:id="@+id/spinner"
    android:layout_width="341dp"
    android:layout_height="28dp"
    android:layout_marginTop="36dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView2" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

MainActivity.java

```

package com.example.cake06;

import androidx.appcompat.app.AppCompatActivity;

import android.app.DatePickerDialog;
import android.app.TimePickerDialog;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.ImageView;
import android.widget.Spinner;
import android.widget.TimePicker;

import java.util.Calendar;

public class MainActivity extends AppCompatActivity {
    String bookeddate,bookedtime;
    String[] flavours={"Vanilla","Red Velvet","Chocolate",
        "Strawberry","Butterscotch"};

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        Spinner sp=findViewById(R.id.spinner);
        ImageView calendar=findViewById(R.id.imageViewcalendar);
        ImageView clock=findViewById(R.id.imageViewclock);
        Button orderbutton=findViewById(R.id.button);

        ArrayAdapter ad=new ArrayAdapter(getApplicationContext(),
            android.R.layout.simple_spinner_item,flavours);
        sp.setAdapter(ad);

        calendar.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 datepicker=new
                    DatePickerDialog(
                        getApplicationContext(),

```

```

android.R.style.Theme_DeviceDefault_DialogWhenLarge,
    new DatePickerDialog.OnDateSetListener() {
        @Override
        public void onDateSet(DatePicker datePicker, int year,
                               int month, int date) {
            bookeddate=date+"/"+month+"/"+
                year;
        }
    },pyear,pmonth,pdate);
datepicker.show();
});

clock.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Calendar c=Calendar.getInstance();
        int phour=c.get(Calendar.HOURL);
        int pminute=c.get(Calendar.MINUTE);

        TimePickerDialog timepicker=new
            TimePickerDialog(
                MainActivity.this,

android.R.style.Theme_DeviceDefault_DialogWhenLarge,
        new TimePickerDialog.OnTimeSetListener() {
            public void onTimeSet(TimePicker timePicker, int hour,
                                   int minute) {
                bookedtime=hour+": "+minute;
            }
        },phour,pminute,false);
        timepicker.show();
    }
});

orderbutton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        String fl=sp.getSelectedItem().toString();

        Intent i=new Intent(getApplicationContext(),
            OrderActivity.class);
        i.putExtra("Flavour",fl);
        i.putExtra("BookDate",bookeddate);
        i.putExtra("BookTime",bookedtime);
        startActivity(i);
    }
});

}
}

```

activity_order.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=".OrderActivity">

    <TextView
        android:id="@+id/textViewresult"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

OrderActivity.java

```

package com.example.cake06;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

public class OrderActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_order);

        TextView tv=findViewById(R.id.textViewresult);

        Intent i=getIntent();
        String fl=i.getStringExtra("Flavour");
        String bd=i.getStringExtra("BookDate");
        String bt=i.getStringExtra("BookTime");

        tv.setText("Flavour:"+fl+"\nBooking Date:"+bd+
            "\nBooking Time"+bt);
    }
}

```