

MainActivity.java-

```
package com.madlab.dateandtimepicker;

import androidx.appcompat.app.AppCompatActivity;

import android.app.DatePickerDialog;
import android.app.TimePickerDialog;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.TimePicker;
import java.util.Calendar;

public class MainActivity extends AppCompatActivity {

    Button button,button2,button3,button4,button5;
    EditText date1,date2,date3,time1,time2,time3;
    private int[] Date1 ,Date2,Time1,Time2;

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

        button = (Button) findViewById(R.id.button);
        button2 = (Button) findViewById(R.id.button2);
        button3 = (Button) findViewById(R.id.button3);
        button4 = (Button) findViewById(R.id.button4);
        button5 = (Button) findViewById(R.id.button5);
        date1 = (EditText) findViewById(R.id.date1);
        date2 = (EditText) findViewById(R.id.date2);
        date3 = (EditText) findViewById(R.id.date3);
        time1 = (EditText) findViewById(R.id.time1);
        time2 = (EditText) findViewById(R.id.time2);
        time3 = (EditText) findViewById(R.id.time3);

        Date1=new int [3];
        Date2=new int [3];
        Time1=new int[2];
        Time2=new int[2];

        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                date(Date1,date1);
            }
        });

        button2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                time(Time1,time1);
            }
        });

        button3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                date(Date2,date2);
            }
        });

        button4.setOnClickListener(new View.OnClickListener() {
```

```
@Override
public void onClick(View v) {
    time(Time2,time2);
}

});

button5.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        diff_date(date3);
        diff_time(time3);
    }
});

}

void date(final int[]d, final EditText e){
    final Calendar c1 = Calendar.getInstance();
    d[0] = c1.get(Calendar.YEAR);
    d[1] = c1.get(Calendar.MONTH);
    d[2] = c1.get(Calendar.DAY_OF_MONTH);

    DatePickerDialog datePickerDialog = new DatePickerDialog(this, new
    DatePickerDialog.OnDateSetListener() {
        @Override
        public void onDateSet(DatePicker view, int year, int month, int dayOfMonth)
        {
            e.setText(String.valueOf(dayOfMonth+"/"+(month+1)+"/"+year));
            d[0]=dayOfMonth;
            d[1]=month;
            d[2]=year;
        }
    },d[0],d[1],d[2]);
    datePickerDialog.show();
}

void time(final int[] t, final EditText e){
    final Calendar c = Calendar.getInstance();
    t[0] = c.get(Calendar.HOUR_OF_DAY);
    t[1] = c.get(Calendar.MINUTE);

    TimePickerDialog timePickerDialog = new TimePickerDialog(this, new
    TimePickerDialog.OnTimeSetListener() {
        @Override
        public void onTimeSet(TimePicker view, int hourOfDay, int minute) {
            e.setText(String.valueOf(hourOfDay + ":" + minute));
            t[0]=hourOfDay;
            t[1]=minute;
        }
    },t[0], t[1], true);
    timePickerDialog.show();
}

void diff_date(final EditText e){
    e.setText(String.valueOf((Date2[0]-Date1[0])+"/"+(Date2[1]-
    Date1[1])+"/"+(Date2[2]-Date1[2])));
}

void diff_time(final EditText e){
    e.setText(String.valueOf((Time2[0]-Time1[0])+":"+(Time2[1]-Time1[1])));
}

}
```

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="50dp"
        android:text="Date and Time Picker"
        android:textColor="@color/black"
        android:textSize="34sp"
        android:textStyle="bold"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="20dp"
        android:layout_marginTop="50dp"
        android:backgroundTint="#87c232"
        android:text="date 1"
        android:textColor="#474a4f"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView" />

    <Button
        android:id="@+id/button2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="20dp"
        android:layout_marginTop="50dp"
        android:backgroundTint="#87c232"
        android:text="time 1"
        android:textColor="#474a4f"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/button" />

    <Button
        android:id="@+id/button3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="20dp"
        android:layout_marginTop="50dp"
        android:backgroundTint="#87c232"
        android:text="date 2"
        android:textColor="#474a4f"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/button2" />

    <Button
        android:id="@+id/button4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="20dp"
        android:layout_marginTop="50dp"
```

```
    android:backgroundTint="#87c232"
    android:text="time 2"
    android:textColor="#474a4f"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/button3" />
```

<Button

```
    android:id="@+id/button5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="20dp"
    android:layout_marginTop="90dp"
    android:backgroundTint="#87c232"
    android:text="calculate"
    android:textColor="#474a4f"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/button4" />
```

<EditText

```
    android:id="@+id/date1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="50dp"
    android:layout_marginEnd="30dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:textColor="#618930"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView" />
```

<EditText

```
    android:id="@+id/time1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="52dp"
    android:layout_marginEnd="30dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:textColor="#618930"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/date1" />
```

<EditText

```
    android:id="@+id/date2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="53dp"
    android:layout_marginEnd="30dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:textColor="#618930"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/time1" />
```

<EditText

```
    android:id="@+id/time2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="54dp"
    android:layout_marginEnd="30dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:textColor="#618930"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/date2" />
```

```
<EditText
    android:id="@+id/date3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="55dp"
    android:layout_marginEnd="30dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:textColor="#618930"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/time2" />

<EditText
    android:id="@+id/time3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="25dp"
    android:layout_marginEnd="30dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:textColor="#618930"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/date3" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

Output-

