

Practical No: 16

Exercise

```
package com.example.datetimepicker;

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 changeTime, changeDate;
    EditText timeET, dateEt;

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

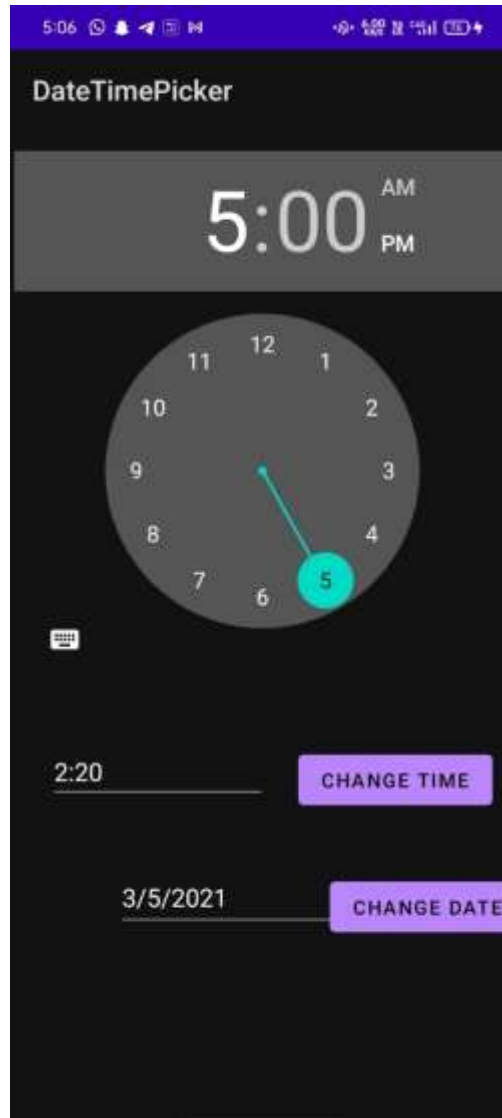
        changeTime = (Button) findViewById(R.id.changetimebtn);
        changeDate = (Button) findViewById(R.id.button2);
        changeTime.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                timeET = (EditText) findViewById(R.id.editTextTime);
                Calendar mcurrentTime = Calendar.getInstance();
                int hour = mcurrentTime.get(Calendar.HOUR_OF_DAY);
                int minute = mcurrentTime.get(Calendar.MINUTE);
                TimePickerDialog mTimePicker;
                mTimePicker = new TimePickerDialog(MainActivity.this, new
                TimePickerDialog.OnTimeSetListener() {
                    @Override
                    public void onTimeSet(TimePicker timePicker, int selectedHour,
                    int selectedMinute) {
                        timeET.setText( selectedHour + ":" + selectedMinute);
                    }
                }, hour, minute, true); //Yes 24 hour time
                mTimePicker.setTitle("Select Time");
                mTimePicker.show();
            }
        });

        changeDate.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v){
```

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```
dateEt = (EditText) findViewById(R.id.editTextDate);
Calendar c=Calendar.getInstance();
Integer month=c.get(Calendar.MONTH);
Integer day=c.get(Calendar.DAY_OF_MONTH);
Integer year=c.get(Calendar.YEAR);

DatePickerDialog datePickerDialog =new
DatePickerDialog(MainActivity.this, new DatePickerDialog.OnDateSetListener() {
    @Override
    public void onDateSet(DatePicker view, int year, int month, int
dayOfMonth) {
        dateEt.setText(dayOfMonth+"/"+month+"/"+year);
    }
},year,month,day);
datePickerDialog.show();
});
}
```



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Practical Related Questions

1. XML time picker tag with its attributes

```
<TimePicker
    android:id="@+id/timePicker1"
    android:layout_width="354dp"
    android:layout_height="356dp"
    android:layout_marginTop="16dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.491"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

2. Write and explain methods of timepicker class

1	is24HourView() This method returns true if this is in 24 hour view else false
2	isEnabled() This method returns the enabled status for this view
3	setCurrentHour(Integer currentHour) This method sets the current hour
4	setCurrentMinute(Integer currentMinute) This method sets the current minute
5	setEnabled(boolean enabled) This method set the enabled state of this view
6	setIs24HourView(Boolean is24HourView) This method set whether in 24 hour or AM/PM mode
7	setOnTimeChangeListener(TimePicker.OnTimeChangeListener onTimeChangeListener) This method Set the callback that indicates the time has been adjusted by the user

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3. List and explain any 5 methods of Date Picker class

Sr.No	Method & description
1	getDayOfMonth() This method gets the selected day of month
2	getMonth() This method gets the selected month
3	getYear() This method gets the selected year
4	setMaxDate(long maxDate) This method sets the maximal date supported by this DatePicker in milliseconds since January 1, 1970 00:00:00 in getDefault() time zone
5	setMinDate(long minDate) This method sets the minimal date supported by this NumberPicker in milliseconds since January 1, 1970 00:00:00 in getDefault() time zone