Name: Aditya Choudhary Roll no: 19406 MAD Experiments

Practical 16

1. Write a Program to display the time picker in spinner mode.

```
Xml Code:
```

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  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:orientation="vertical">
  <TextView
    android:layout_marginTop="80dp"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Spinner (AM/PM)"
    android:textSize="40dp"
    android:textStyle="bold"
    android:fontFamily="casual"
    android:textColor="@color/black"
    android:layout_gravity="center"
    />
  <TimePicker
    android:id="@+id/timepik1"
                                                  7:56 🛭 😯 🖺
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
                                                   exp16
    android:timePickerMode="spinner"
    android:layout_gravity="center"
    android:layout_marginTop="30dp" />
```

Output:

</LinearLayout>



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2. Write a Program to display time picker in 24 hours format in spinner mode.

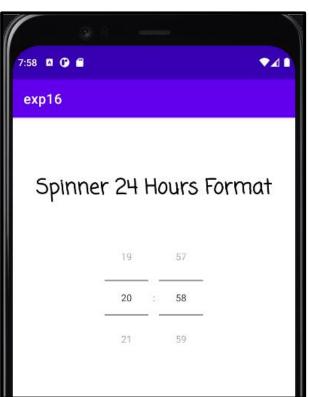
Xml Code :

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  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:orientation="vertical">
  <TextView
    android:layout marginTop="80dp"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Spinner 24 Hours Format"
    android:textSize="30dp"
    android:textStyle="bold"
    android:fontFamily="casual"
    android:textColor="@color/black"
    android:layout_gravity="center"
    />
  <TimePicker
    android:id="@+id/t2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:timePickerMode="spinner"
    android:layout gravity="center"
    android:layout_marginTop="30dp"/>
</LinearLayout>
```

Java Code:

```
package com.example.exp16;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TimePicker;
public class MainActivity2 extends AppCompatActivity
{
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        TimePicker tp1 = (TimePicker)
findViewById(R.id.t2);
        tp1.setIs24HourView(true);
    }
}
```

Output:



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3. Write a Program to display the following output. Select and display date and time on click of "select date" and "select time" buttons respectively.

Xml Code :

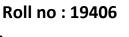
```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity3"
  <TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Date and Time picker"
    android:textSize="40dp"
    android:gravity="center"
    android:layout_marginTop="30dp"
    android:textColor="@color/black"
    android:id="@+id/txt"
    />
  <EditText
    android:layout_width="200dp"
    android:layout_height="wrap_content"
    android:textSize="25dp"
    android:textColor="@color/black"
    android:layout_below="@id/txt"
    android:layout_marginTop="50dp"
    android:layout_marginLeft="15dp"
    android:id="@+id/datetextview"
    />
  <EditText
    android:layout_width="200dp"
    android:layout height="wrap content"
    android:textSize="25dp"
    android:textColor="@color/black"
    android:layout_below="@id/datetextview"
    android:layout_marginTop="20dp"
    android:layout_marginLeft="15dp"
    android:id="@+id/timetextview"
    />
  <Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Select Date"
    android:textSize="20dp"
    android:layout_toRightOf="@id/datetextview"
    android:layout_marginTop="135dp"
    android:layout_marginLeft="10dp"
    android:backgroundTint="@color/black"
```

```
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    android:id="@+id/datebutton"
    />
  <Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Select Time"
    android:textSize="20dp"
    android:layout_toRightOf="@id/timetextview"
    android:layout marginTop="205dp"
    android:layout_marginLeft="10dp"
    android:backgroundTint="@color/black"
    android:layout_alignBottom="@id/timetextview"
    android:id="@+id/timebutton"
    />
</RelativeLayout>
Java Code:
package com.example.exp16;
import androidx.appcompat.app.AppCompatActivity;
import android.app.DatePickerDialog;
import android.app.TimePickerDialog;
import android.os.Bundle;
import android.text.format.DateFormat;
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 MainActivity3 extends AppCompatActivity {
  Button date, time;
  EditText dtext,ttext;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main3);
    date = (Button) findViewById(R.id.datebutton);
    time = (Button) findViewById(R.id.timebutton);
    dtext = (EditText) findViewById(R.id.datetextview);
    ttext = (EditText) findViewById(R.id.timetextview);
    date.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         dispdate();
     });
    time.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         disptime();
    });
  }
```

```
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                                                                           MAD Experiments
  public void dispdate(){
    Calendar calendar = Calendar.getInstance();
    int year = calendar.get(Calendar.YEAR);
    int month = calendar.get(Calendar.MONTH);
    int date = calendar.get(Calendar.DATE);
    DatePickerDialog datePickerDialog = new DatePickerDialog(this, new
DatePickerDialog.OnDateSetListener() {
       @Override
      public void onDateSet(DatePicker datePicker, int YEAR, int MONTH, int DATE) {
         Calendar calendar1 = Calendar.getInstance();
         calendar1.set(Calendar.YEAR,YEAR);
         calendar1.set(Calendar.MONTH,MONTH);
         calendar1.set(Calendar.DATE,DATE);
         CharSequence charSequence = DateFormat.format("dd/MM/yyyy",calendar1);
         dtext.setText(charSequence);
    }, year, month, date);
    datePickerDialog.show();
  public void disptime(){
    Calendar calendar = Calendar.getInstance();
    int hour = calendar.get(Calendar.HOUR);
    int minute = calendar.get(Calendar.MINUTE);
    boolean is 24hour = DateFormat.is 24HourFormat(this);
    TimePickerDialog timePickerDialog = new TimePickerDialog(this, new
TimePickerDialog.OnTimeSetListener() {
       @Override
      public void onTimeSet(TimePicker timePicker, int H, int M) {
         Calendar calendar1 = Calendar.getInstance();
         calendar1.set(Calendar.HOUR,H);
         calendar1.set(Calendar.MINUTE,M);
         CharSequence charSequence = DateFormat.format("h : mm a",calendar1);
         ttext.setText(charSequence);
    }, hour, minute, is24hour);
    timePickerDialog.show();
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}
                                            exp16
Output:
                                            Date and Time picker
                                                                     SELECT DATE
```

SELECT TIME

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