

## Mobile Computing 6. Write a Program to generate Calendar using Android/other.

Name: Sameer Gupta

Roll no.: 252010036

### CODE:

activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    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">

    <!-- Add TextView to display the date -->
    <TextView
        android:id="@+id/date_view"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="150dp"
        android:layout_marginTop="20dp"
        android:text="Set the Date"
        android:textColor="@android:color/background_dark"
        android:textStyle="bold" />
```

```

<!-- Add CalenderView to display the Calender -->
<CalendarView
    android:id="@+id/calender"
    android:layout_marginTop="80dp"
    android:layout_marginLeft="19dp"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content">
</CalendarView>

</RelativeLayout>

```

### MainActivity.java

```

import android.support.annotation.NonNull;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.Button;
import android.widget.CalendarView;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    // Define the variable of CalendarView type
    // and TextView type;
    CalendarView calender;
    TextView date_view;

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {

```

```
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);

// By ID we can use each component
// which id is assign in xml file
// use findViewById() to get the
// CalendarView and TextView
calender = (CalendarView)
    findViewById(R.id.calender);
date_view = (TextView)
    findViewById(R.id.date_view);

// Add Listener in calendar
calender
    .setOnDateChangeListener(
        new CalendarView
            .OnDateChangeListener() {
                @Override

                // In this Listener have one method
                // and in this method we will
                // get the value of DAYS, MONTH, YEARS
                public void onSelectedDayChange(
                    @NonNull CalendarView view,
                    int year,
                    int month,
                    int dayOfMonth)
                {
```

```
// Store the value of date with
// format in String type Variable
// Add 1 in month because month
// index is start with 0
String Date
    = dayOfMonth + "-"
    + (month + 1) + "-" + year;

// set this date in TextView for Display
date_view.setText(Date);
    }
});
}
}
```

## OUTPUT:

Calendar

Set the Date

<

January 2019

>

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Calendar

31-1-2019

<

January 2019

>

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		