

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

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## **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																																																							
<p style="text-align: center;"><b>Set the Date</b></p> <table border="1" style="width: 100%;"><thead><tr><th colspan="7">January 2019</th></tr><tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr></thead><tbody><tr><td></td><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td></tr><tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr><tr><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td></tr><tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr><tr><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td></td><td></td></tr></tbody></table>							January 2019							S	M	T	W	T	F	S					1	2	3	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		
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