

TimePicker Example

activity_main.xml

```
1. <?xml version="1.0" encoding="utf-8"?>
    <RelativeLayout
        xmlns:android="http://schemas.android.com/apk/res/android"
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <TimePicker
            android:id="@+id/timePicker1"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_centerHorizontal="true"
            android:layout_marginTop="20dp"
            android:timePickerMode="spinner"/>
        <Button
            android:id="@+id/button1"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_below="@+id/timePicker1"
            android:layout_marginTop="10dp"
            android:layout_marginLeft="160dp"
            android:text="Get Time" />
        <TextView
            android:id="@+id/textView1"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_below="@+id/button1"
            android:layout_marginLeft="120dp"
            android:layout_marginTop="10dp"
            android:textStyle="bold"
            android:textSize="18dp"/>
    </RelativeLayout>
```

MainActivity.java

```
2. package com.training.timepickerexample;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Build;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.TimePicker;

public class MainActivity extends AppCompatActivity {

    TimePicker timePicker;
    Button button;
    TextView textView;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

```

setContentView(R.layout.activity_main);

textView=(TextView) findViewById(R.id.textView1);
timePicker=(TimePicker) findViewById(R.id.timePicker1);
timePicker.setIs24HourView(false);

button=(Button) findViewById(R.id.button1);
button.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        int hour, minute;
        String am_pm;
        if(Build.VERSION.SDK_INT>=23)
        {
            hour=timePicker.getHour();
            minute=timePicker.getMinute();
        }
        else
        {
            hour=timePicker.getCurrentHour();
            minute=timePicker.getCurrentMinute();
        }
        if(hour>12)
        {
            am_pm="PM";
            hour=hour-12;
        }
        else
        {
            am_pm="AM";
        }
        textView.setText("Your Selected Time: "+hour+" :
"+minute+" "+am_pm);
    }
});
}
}

```

Output



DatePicker Example

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <DatePicker
        android:id="@+id/datePicker1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="20dp"
        android:datePickerMode="spinner"
        android:calendarViewShown="false"/>
    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/datePicker1"
        android:layout_marginLeft="100dp"
        android:text="Get Date" />
    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/button1"
        android:layout_marginLeft="100dp"
        android:layout_marginTop="10dp"
        android:textStyle="bold"
        android:textSize="18dp"/>
</RelativeLayout>
```

MainActivity.java

```
package com.training.datepickerexample;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    DatePicker datePicker;
    Button button;
    TextView textView;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

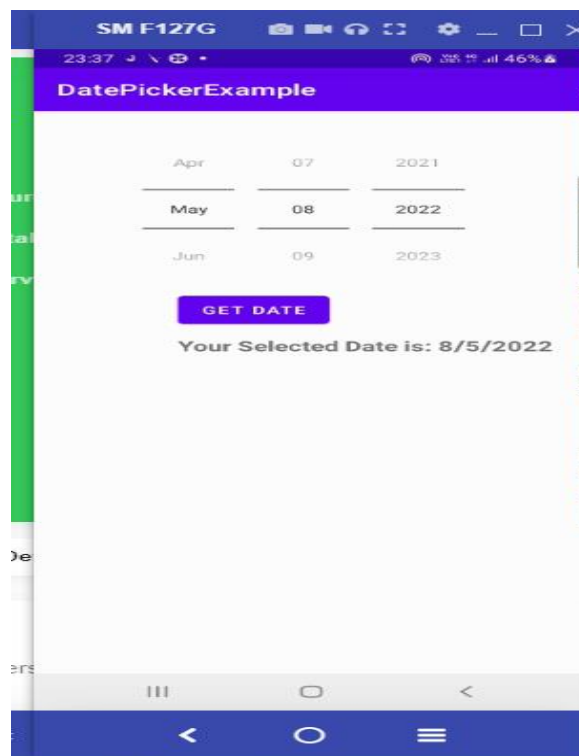
```

textView=(TextView) findViewById(R.id.textView1);
datePicker=(DatePicker) findViewById(R.id.datePicker1);
button=(Button) findViewById(R.id.button1);

button.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        textView.setText("Your Selected Date is:
"+datePicker.getDayOfMonth()+"/"
                        +(datePicker.getMonth()+1)+"/"+datePicker.getYear());
    }
});
}
}

```

Output



TimePicker and DatePicker Example

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <EditText
        android:id="@+id/editText1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="100dp"
        android:layout_marginTop="150dp"
        android:ems="10"
        android:hint="Enter Date" />
    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/editText1"
        android:layout_marginLeft="100dp"
        android:text="Get Date" />
    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/button1"
        android:layout_marginLeft="100dp"
        android:layout_marginTop="10dp"
        android:textStyle="bold"
        android:textSize="18dp"/>
    <EditText
        android:id="@+id/editText2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/textView1"
        android:layout_marginLeft="100dp"
        android:layout_marginTop="150dp"
        android:ems="10"
        android:hint="Enter Time" />
    <Button
        android:id="@+id/button2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/editText2"
        android:layout_marginLeft="100dp"
        android:text="Get Time" />
    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/button2"
        android:layout_marginLeft="100dp"
        android:layout_marginTop="10dp"
        android:textStyle="bold"
```

```
        android:textSize="18dp"/>
</RelativeLayout>
```

MainActivity.java

```
package com.training.dateandtimepickerexample;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
import android.app.DatePickerDialog;
import android.app.TimePickerDialog;
import android.os.Bundle;
import android.text.InputType;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.TimePicker;

import java.util.Calendar;

public class MainActivity extends AppCompatActivity {

    DatePickerDialog datePickerDialog;
    EditText editText;
    Button button;
    TextView textView;

    TimePickerDialog timePickerDialog;
    EditText editText2;
    Button button2;
    TextView textView2;

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

        textView=(TextView) findViewById(R.id.textView1);

        editText=(EditText) findViewById(R.id.editText1);
        editText.setInputType(InputType.TYPE_NULL);

        editText.setOnClickListener(new View.OnClickListener() {
            @SuppressLint("NewApi")
            @Override
            public void onClick(View view) {
                Calendar calendar=Calendar.getInstance();
                int day=calendar.get(Calendar.DAY_OF_MONTH);
                int month=calendar.get(Calendar.MONTH);
                int year=calendar.get(Calendar.YEAR);

                datePickerDialog=new DatePickerDialog(MainActivity.this, new
                DatePickerDialog.OnDateSetListener() {
```

```

        @Override
        public void onDateSet(DatePicker datePicker, int year,
int monthOfYear, int dayOfMonth) {

editText.setText(dayOfMonth+"/"+(monthOfYear+1)+"/"+year);
        }
        },year, month, day);
        datePickerDialog.show();
    }
});

button=(Button) findViewById(R.id.button1);
button.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        textView.setText("Your Selected Date: "+editText.getText());
    }
});

textView2=(TextView) findViewById(R.id.textView2);

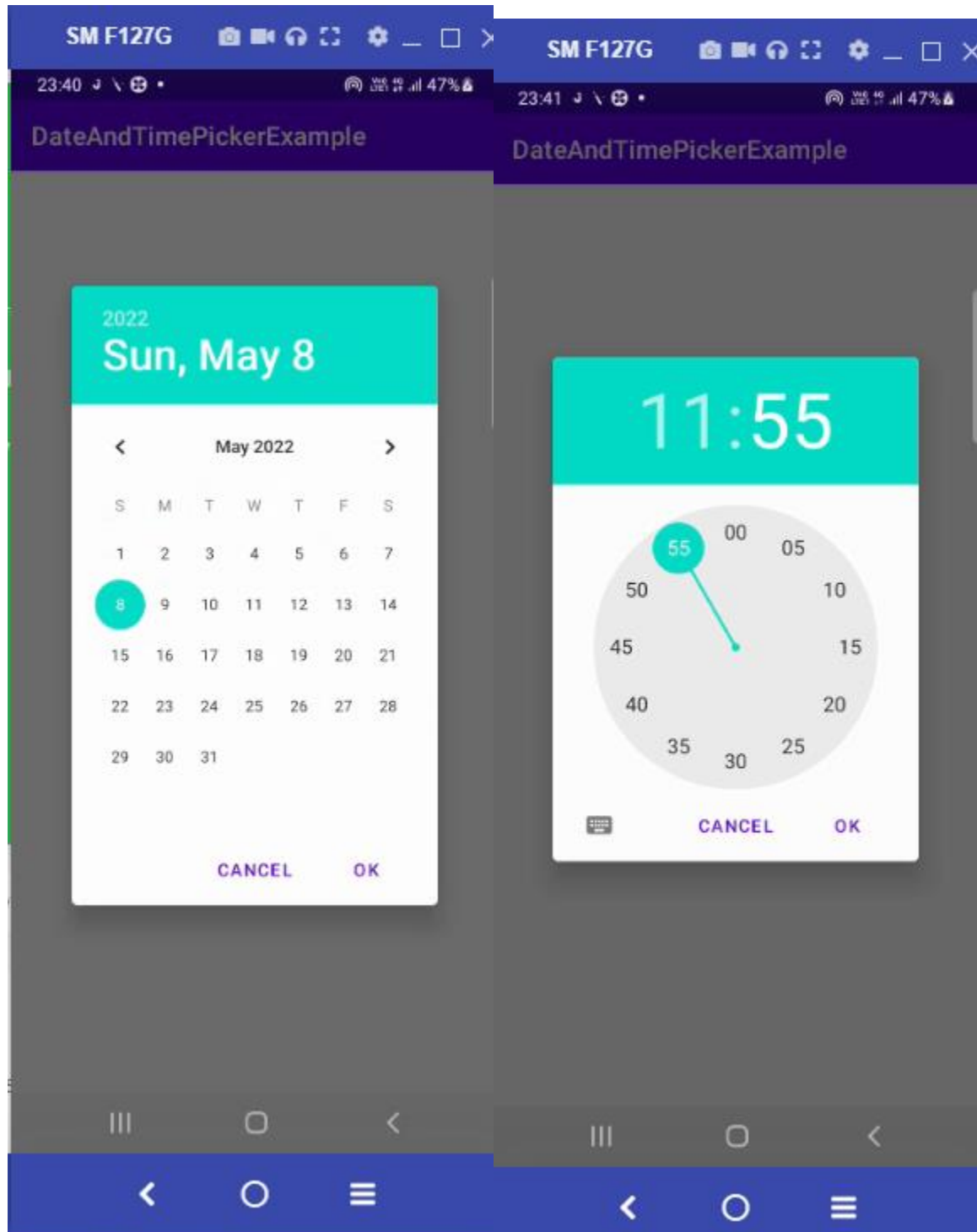
editText2=(EditText) findViewById(R.id.editText2);
editText2.setInputType(InputType.TYPE_NULL);
editText2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Calendar calendar1=Calendar.getInstance();
        int hour=calendar1.get(Calendar.HOUR_OF_DAY);
        int minute=calendar1.get(Calendar.MINUTE);

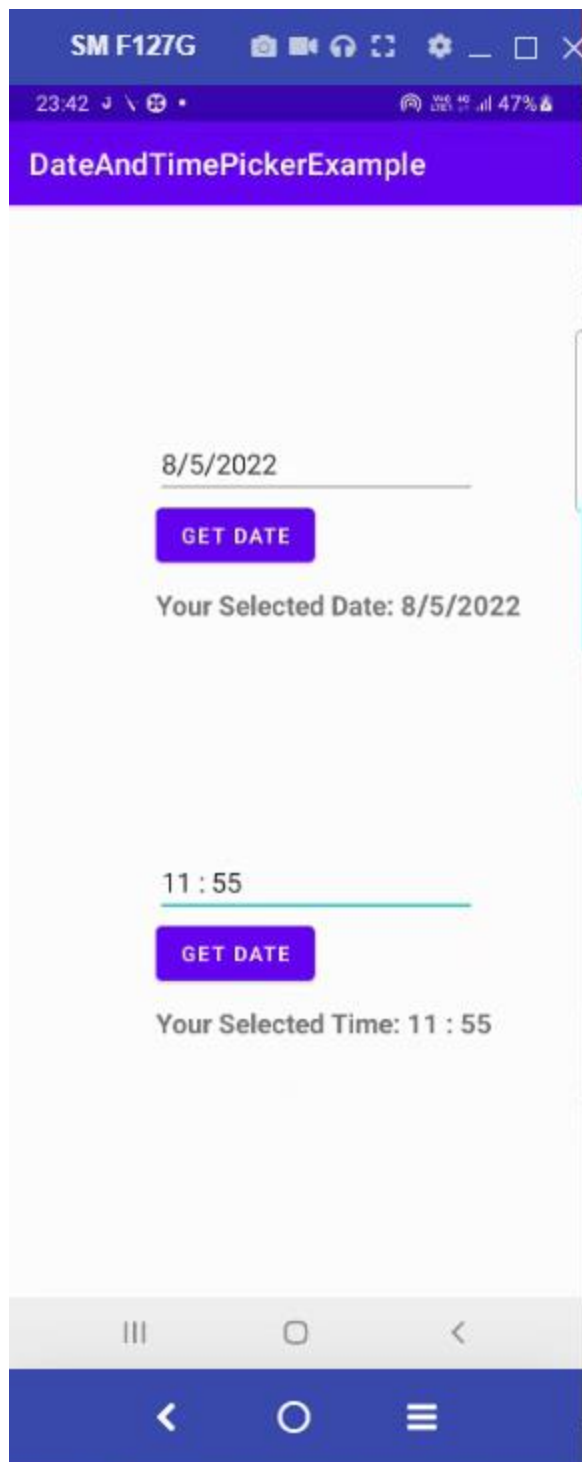
        timePickerDialog=new TimePickerDialog(MainActivity.this, new
TimePickerDialog.OnTimeSetListener() {
            @Override
            public void onTimeSet(TimePicker timePicker, int sHour,
int sMinute) {
                editText2.setText(sHour+" : "+sMinute);
            }
        },hour,minute,true);
        timePickerDialog.show();
    }
});

button2=(Button) findViewById(R.id.button2);
button2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        textView2.setText("Your Selected Time:
"+editText2.getText());
    }
});
}
}

```

Output





Develop an android application to calculate age (Use Date Picker) using following GUI.



The image shows a screenshot of an Android application interface for calculating age. It features a light blue background. At the top, there is a label "Date of Birth" followed by a date picker widget showing "11-Jun-2016". Below this, there is a label "Current Date" followed by another date picker widget showing "11-Jun-2016". In the center, there is a rectangular button with the text "Calculate". At the bottom, there is a text label that reads "Your Age : 0".