```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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="wrap_content"
    android:orientation="vertical"
    tools:context=".MainActivity">
    <!--시계모드-->
    <!--<TimePicker
    android:layout_width="wrap_content"
    android:layout_height="wrap_content" />-->

    <TimePicker
        android:id="@+id/timePicker"
        android:layout_marginTop="20dp"
        android:layout_gravity="center"
        android:timePickerMode="spinner"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content" />

    <TextView
        android:id="@+id/textView"
        android:textSize="36sp"
        android:textAlignment="center"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />

    <TextClock
        android:id="@+id/textClock"
        android:textSize="36sp"
        android:layout_marginTop="20dp"
        android:textAlignment="center"
        android:format24Hour="HH:mm:ss a"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content" />

    <TextClock
        android:textSize="36sp"
        android:layout_marginTop="20dp"
        android:textAlignment="center"
        android:format12Hour="HH:mm:ss a"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content" />

</LinearLayout>
```
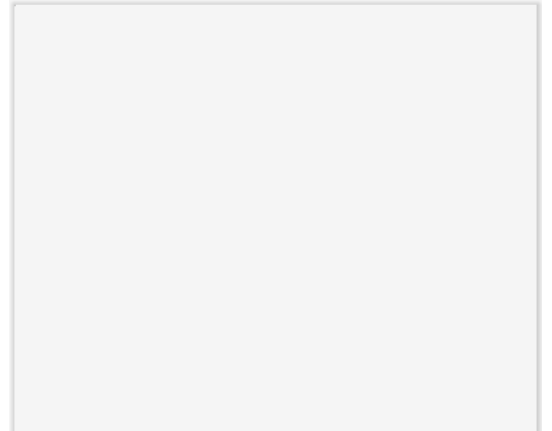
```java
package com.ict.ex20_timepicker;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.TextClock;
import android.widget.TextView;
import android.widget.TimePicker;
import android.widget.Toast;

import org.w3c.dom.Text;

public class MainActivity extends AppCompatActivity {
    TimePicker timePicker;
    TextView textView;
    TextClock textClock;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        timePicker = findViewById(R.id.timePicker);
        textView = findViewById(R.id.textView);
        textClock = findViewById(R.id.textClock);

        timePicker.setOnTimeChangedListener(new TimePicker.OnTimeChangedListener() {
            @Override
            public void onTimeChanged(TimePicker timePicker, int h, int m) {
                textView.setText(String.format("%d : %d" , h, m));
            }
        });

        textClock.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Toast.makeText(MainActivity.this, textClock.getText().toString(),
                Toast.LENGTH_SHORT).show();
            }
        });
    }
}
```

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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="wrap_content"
android:orientation="vertical"
tools:context=".MainActivity2">

<Button
android:id="@+id/button1"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="시간 대화상자" />

<TextView
android:id="@+id/textView1"
android:layout_marginTop="20dp"
android:textSize="36sp"
android:textAlignment="center"
android:layout_width="match_parent"
android:layout_height="wrap_content" />
</LinearLayout>
```



```java
package com.ict.ex20_timepicker;

import androidx.appcompat.app.AppCompatActivity;

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

import java.util.Calendar;

public class MainActivity2 extends AppCompatActivity {
Button button1;
TextView textView1;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main2);

button1 = findViewById(R.id.button1);
textView1 = findViewById(R.id.textView1);

Calendar now = Calendar.getInstance();
// final int hour = now.get(Calendar.HOUR_OF_DAY);
final int hour = now.get(Calendar.HOUR);
final int minute = now.get(Calendar.MINUTE);
button1.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {
// 타이피커 다이얼 로그 호출
new TimePickerDialog(MainActivity2.this,
android.R.style.Theme_DeviceDefault, new
TimePickerDialog.OnTimeSetListener() {
@Override
public void onTimeSet(TimePicker timePicker, int h, int m) {
textView1.setText(String.format("%d : %d", h, m));
}
},hour, minute,false).show();
}
});
}
}
```