W2_2

strings.xml

```xml
<resources>
    <string name="app_name">My java APP</string>
    <string name="disp">Display Toast</string>
    <string name="qu">Android Questionaire</string>
    <string name="ms">Do you like Android CellPhone?</string>
    <string name="ch">Your choice</string>
    <string name="no">No comment</string>
    <string name="lk">Like</string>
    <string name="ht">Hate</string>
    <string name="dt">Date</string>
    <string name="tt">Time</string>
</resources>
```

zh-rTW\strings.xml

```xml
<resources>
<string name="app_name">我的java應用程式</string>
<string name="disp">顯示即時資訊</string>
<string name="qu">安卓問卷調查</string>
<string name="ms">你喜歡安著手機嗎</string>
<string name="ch">你選擇</string>
<string name="no">沒意見</string>
<string name="lk">喜歡</string>
<string name="ht">討厭</string>
<string name="dt">時間</string>
<string name="tt">日期</string>
</resources>
```

activity_main.xml

```xml
 9        <TextView
10            android:layout_width="wrap_content"
11            android:layout_height="wrap_content"
12            android:text="Hello"
13            android:id="@+id/res" />
14
15        <Button
16            android:id="@+id/b1"
17            android:layout_width="wrap_content"
18            android:layout_height="wrap_content"
19            android:layout_toRightOf="@+id/res"
20            android:text="@string/disp"/>
21
22        <TextView
23            android:id="@+id/dt"
24            android:layout_width="100sp"
25            android:layout_height="wrap_content"
26            android:layout_toRightOf="@+id/b1"
27            android:text="@string/dt"/>


29        <TextView
30            android:id="@+id/tt"
31            android:layout_width="100sp"
32            android:layout_height="wrap_content"
33            android:layout_toRightOf="@+id/dt"
34            android:text="@string/tt"/>
35
36        <DatePicker
37            android:layout_width="match_parent"
38            android:layout_height="320sp"
39            android:layout_below="@+id/b1"
40            android:id="@+id/dp"/>
41
42        <TimePicker
43            android:layout_width="wrap_content"
44            android:layout_height="wrap_content"
45            android:layout_below="@+id/dp"
46            android:id="@+id/tp"/>
```

MainActivity.java

```java
package com.example.w2_209410314;

import ...
2 usages
public class MainActivity extends AppCompatActivity implements View.OnClickListener,
        DialogInterface.OnClickListener, DatePickerDialog.OnDateSetListener,
        TimePickerDialog.OnTimeSetListener,
        DatePicker.OnDateChangedListener, TimePicker.OnTimeChangedListener{

    5 usages
    Toast tos; Button b1; int i = 1; TextView rr, dt, tt; int yy=0,mm=0,dd=0,hh=0,m1=0; Time t;
    2 usages
    DatePicker dp; TimePicker tp;
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        t=new Time(); t.setToNow(); yy=t.year; mm=t.month; dd=t.monthDay; hh=t.hour; m1=t.minute;
        tos = Toast.makeText( context: this, getString(R.string.disp), Toast.LENGTH_SHORT);
        b1 = (Button) findViewById(R.id.b1); tos.show();
        b1.setOnClickListener(this);
        rr = (TextView) findViewById(R.id.res);
        dt = (TextView) findViewById(R.id.dt);
        tt = (TextView) findViewById(R.id.tt);
        dt.setOnClickListener(this);
        tt.setOnClickListener(this);

        new AlertDialog.Builder( context: this).setTitle(getString(R.string.qu)).
                setMessage(getString(R.string.ms)).setIcon(android.R.drawable.star_big_on)
                .setCancelable(false)
                .setPositiveButton(getString(R.string.lk), listener: this)
                .setNegativeButton(getString(R.string.ht), listener: this)
                .setNeutralButton(getString(R.string.no), listener: this)
                .show();
        dp = (DatePicker) findViewById(R.id.dp);
        tp = (TimePicker) findViewById(R.id.tp);
        dp.setOnDateChangedListener(this);
        tp.setOnTimeChangedListener(this);
    }

    public void onDateChanged(DatePicker datePicker, int i, int i1, int i2) {
        dt.setText(getString(R.string.dt)+ i +"/"+ (i1+1) +"/"+ i2);
    }

    public void onTimeChanged(TimePicker timePicker, int i, int i1) {
        tt.setText(getString(R.string.tt)+ i +":"+ i1);
    }
```

```java
        public void onClick(View view) {
//            tos.setText("i="+(i++));
//            tos.setGravity(Gravity.TOP | Gravity.RIGHT, 0, 50);
//            tos.show();
//            new AlertDialog.Builder(this).setTitle(getString(R.string.qu)).
//                    setMessage(getString(R.string.ms)).setIcon(android.R.drawable.star_big_on)
//                    .setCancelable(true)
//                    .setPositiveButton(getString(R.string.lk), this)
//                    .setNegativeButton(getString(R.string.ht), this)
//                    .setNeutralButton(getString(R.string.no), this)
//                    .show();
            if(view == b1){
                tos.setText("i=" + (i++));
                tos.setGravity( gravity: Gravity.TOP | Gravity.RIGHT, xOffset: 0, yOffset: 50);
                tos.show();
            }
            if(view == dt) new DatePickerDialog( context: this,  listener: this, yy,mm,dd).show();
            if(view == dt) new TimePickerDialog( context: this,  listener: this,  hh, m1, is24HourView: true)
                    .show();
        }

        public void onDateSet(DatePicker datePicker, int i, int i1, int i2) {
            dt.setText(getString(R.string.dt)+ i +"/"+ (i1+1) +"/"+ i2);
        }


        public void onTimeSet(TimePicker timePicker, int i, int i1) {
            tt.setText(getString(R.string.tt)+ i +":"+ i1);
        }


        public void onClick(DialogInterface dialogInterface, int i) {
            if(i == DialogInterface.BUTTON_POSITIVE)
                rr.setText(getString(R.string.ch) + getString(R.string.lk));
            if(i == DialogInterface.BUTTON_NEGATIVE)
                rr.setText(getString(R.string.ch) + getString(R.string.ht));
            if(i == DialogInterface.BUTTON_NEUTRAL)
                rr.setText(getString(R.string.ch) + getString(R.string.no));
        }
}
```