



W11_bmi

strings.xml

```

1  <resources>
2      <string name="app_name">My Java App</string>
3      <string name="bmi">Compute BMI</string>
4      <string name="exp">BMI Explanation</string>
5      <string name="explain">BMI=Wight(kg)/(Height(m)*Height(m))\n
6          Too Light BMI < 18.5\n
7          Normal 18.5<= BMI < 24\n
8          Over Weight 24<= BMI < 27\n</string>
9      <string name="high">Height(cm)</string>
10     <string name="wei">Weight(kg)</string>
11     <string name="com">Compute</string>
12     <string name="result">BMI=</string>
13     <string name="err">error</string>
14 </resources>

```

zh-rTW\strings.xml

```
1  <?xml version="1.0" encoding="utf-8"?>
2  <resources>
3      <string name="app_name">我的爪哇應用程式</string>
4      <string name="bmi">計算BMI</string>
5      <string name="exp">BMI說明</string>
6      <string name="explain">BMI=體重(kg)/(身高(m)*身高(m))\n
7          體重過輕 BMI < 18.5\n
8          正常範圍 18.5<= BMI < 24\n
9          體重過重 24<= BMI < 27\n</string>
10     <string name="high">身高(cm)</string>
11     <string name="wei">體重(kg)</string>
12     <string name="com">計算</string>
13     <string name="result">BMI=</string>
14     <string name="err">有欄位未輸入</string>
15 </resources>
```

activity_main.xml

Palette

Component Tree

RelativeLayout

tbh

LinearLayout (vertical)

@android:id/tabs

@android:id/tabcontent

tab1 (vertical)

LinearLayout (horizontal)

Ab textView2 "@string/high"

Ab ed_hi (Number (Decimal))

Ab textView3 "@string/wei"

Ab ed_wei (Number (Decimal))

b1 "@string/com"

Ab res "@string/result"

tab2 (vertical)

Ab textView "@string/explain"

activity_main.xml

Pixel

33

TAB1

TAB2

Height(cm)

Weight(kg)

COMPUTE

BMI=

@android:id/text

TextView

Ed_hi

TextView

ed_wei

Button

TextView

```

9      <TabHost
10          android:id="@+id/tbh"
11          android:layout_width="match_parent"
12          android:layout_height="match_parent">
13
14      <LinearLayout
15          android:layout_width="match_parent"
16          android:layout_height="match_parent"
17          android:orientation="vertical">
18
19          <TabWidget
20              android:id="@android:id/tabs"
21              android:layout_width="match_parent"
22              android:layout_height="wrap_content" />
23
24          <FrameLayout
25              android:id="@android:id/tabcontent"
26              android:layout_width="match_parent"
27              android:layout_height="match_parent">

```

```

29      <LinearLayout
30          android:id="@+id/tab1"
31          android:layout_width="match_parent"
32          android:layout_height="match_parent"
33          android:orientation="vertical">
34
35          <LinearLayout
36              android:layout_width="match_parent"
37              android:layout_height="wrap_content"
38              android:orientation="horizontal">
39
40              <TextView
41                  android:id="@+id/textView2"
42                  android:layout_width="wrap_content"
43                  android:layout_height="wrap_content"
44                  android:text="@string/high" />

```

```

46 <EditText
47     android:id="@+id/ed_hi"
48     android:layout_width="wrap_content"
49     android:layout_height="wrap_content"
50     android:ems="5"
51     android:inputType="numberDecimal"
52     android:text="" />
53
54 <TextView
55     android:id="@+id/textView3"
56     android:layout_width="wrap_content"
57     android:layout_height="wrap_content"
58     android:text="@string/wei" />
59
60 <EditText
61     android:id="@+id/ed_wei"
62     android:layout_width="wrap_content"
63     android:layout_height="wrap_content"
64     android:ems="5"
65     android:inputType="numberDecimal"
66     android:text="" />

```

```

68 </LinearLayout>
69 <Button
70     android:id="@+id/b1"
71     android:layout_width="wrap_content"
72     android:layout_height="wrap_content"
73     android:text="@string/com"/>
74 <TextView
75     android:id="@+id/res"
76     android:layout_width="wrap_content"
77     android:layout_height="wrap_content"
78     android:text="@string/result"/>
79 </LinearLayout>
80 <LinearLayout
81     android:id="@+id/tab2"
82     android:layout_width="match_parent"
83     android:layout_height="match_parent"
84     android:orientation="vertical">
85     <TextView
86         android:id="@+id/textView"
87         android:layout_width="match_parent"
88         android:layout_height="wrap_content"
89         android:text="@string/explain" />
90 </LinearLayout>

```

```

91
92 </FrameLayout>
93 </LinearLayout>
94 </TabHost>
95 </RelativeLayout>

```

MainActivity.java

```
13 public class MainActivity extends AppCompatActivity implements View.OnClickListener {
14     TabHost tb; Button b1; TextView res; EditText e_h, e_w;
15     protected void onCreate(Bundle savedInstanceState) {
16         super.onCreate(savedInstanceState);
17         setContentView(R.layout.activity_main);
18         tb=(TabHost) findViewById(R.id.tbh); tb.setup();
19         b1=(Button) findViewById(R.id.b1); b1.setOnClickListener(this);
20         TabHost.TabSpec ss=tb.newTabSpec( tag: "tab1");
21         ss.setContent(R.id.tab1); ss.setIndicator(getString(R.string.bmi));
22         TabHost.TabSpec s1=tb.newTabSpec( tag: "tab2");
23         s1.setContent(R.id.tab2); s1.setIndicator(getString(R.string.exp));
24         tb.addTab(ss); tb.addTab(s1); tb.setCurrentTab(1);
25     }
26     public void onClick(View view) {
27         e_h=(EditText) findViewById(R.id.ed_hi);
28         e_w=(EditText) findViewById(R.id.ed_we);
29         res=(TextView) findViewById(R.id.res);
30         String sh=e_h.getText().toString(),sw=e_w.getText().toString();
31         if(sh.length()>0 && sw.length() > 0){
32             double h=Double.parseDouble(sh)/100.0, w=Double.parseDouble(sw),bmi;
33             bmi=w/(h*h); res.setText(getString(R.string.result)+String.format("%.2f", bmi));
34         }
35         else Toast.makeText( context: this, getString(R.string.err),Toast.LENGTH_SHORT).show();
36     }
}
```