BMI计算器Java代码

package com.llz.button;

import java.io.StringWriter;

import android.app.Activity;

import android.content.res.ColorStateList;

import android.graphics.Color;

import android.os.Bundle;

import android.view.View;

import android.view.View.OnClickListener;

import android.widget.Button;

import android.widget.EditText;

import android.widget.RadioButton;

import android.widget.TextView;

/\*\*

\* RdioGroup、RadioButton

\* 如果有多个Activity，需要在清单文件中配置Activity，如果该Activity需要启动，则需要配置过滤器 一般分为4步：

\* 1、创建Java文件（程序的逻辑控制）

\* 2、创建布局文件

\* 3、配置清单文件（配置Activity）

\* 4、覆写onCreate()方法，加载布局。

\*

\* @author Lin

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\*/

public class BMIActivity extends Activity implements OnClickListener{

RadioButton rbMale;

EditText etHeight,etWeight,etName;

TextView tvResult;//显示计算结果

Button btnClear ,btnCalc;//清空和计算按钮

@Override

protected void onCreate(Bundle savedInstanceState) {

// OnCreate()方法是Activity启动后第一个执行的方法

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_bmi);// 加载BMI计算器布局

rbMale = (RadioButton) findViewById(R.id.rbMale);

rbMale.setChecked(true);

etName = (EditText) findViewById(R.id.etName);

etHeight = (EditText) findViewById(R.id.etHeight);

etWeight = (EditText) findViewById(R.id.etWeight);

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

btnClear = (Button) findViewById(R.id.btnClear);

btnCalc = (Button) findViewById(R.id.btnCalc);

btnClear.setOnClickListener(this);//直接在当前类实现的接口，使用this

btnCalc.setOnClickListener(this);

}

/\*

@Override

public void onClick(View v) {

switch (v.getId()) {

case R.id.btnCalc://点击计算按钮

String strHeight = etHeight.getText().toString();

String strWeight = etWeight.getText().toString();

if(strHeight.length() == 0 || strWeight.length() == 0) {

tvResult.setText("身高和体重不能为空！");

tvResult.setTextColor(Color.RED);

break;

}

case R.id.btnClear:

etHeight.setText("");

etWeight.setText("");

tvResult.setText("");

rbMale.setChecked(true);

break;

}

}

\*/

@Override

public void onClick(View v) {

if(v.getId() == R.id.btnCalc) {//计算按钮

String strname = etName.getText().toString();

String strHeight = etHeight.getText().toString();

String strWeight = etWeight.getText().toString();

if(strname.length() == 0 || strHeight.length() == 0 || strWeight.length() == 0) {

tvResult.setText("姓名、身高和体重不能为空！");

tvResult.setTextColor(Color.RED);

}else {

double height = Double.valueOf(strHeight) / 100;

double weight = Double.valueOf(strWeight);

double result = weight / (height \* height);

String strResult;

String name = strname;

if(result <= 18.4)

strResult = "偏瘦";

else if(result <= 23.9)

strResult = "正常";

else if(result <= 27.9)

strResult = "偏重";

else

strResult = "肥胖";

/\*

switch () {

case R.id.rbMale:

tvResult.setText( "先生" + "您的BMI指数为：" + String.format("%.2f", result) + "-->" + strResult);

break;

case R.id.rbFemale:

tvResult.setText( "女士" + "您的BMI指数为：" + String.format("%.2f", result) + "-->" + strResult);

break;

}

\*/

if(rbMale.isChecked())

tvResult.setText( name + "先生" + "您的BMI指数为：" + String.format("%.2f", result) + "-->" + strResult);

else

tvResult.setText( name + "女士" + "您的BMI指数为：" + String.format("%.2f", result) + "-->" + strResult);

}

}else if(v.getId() == R.id.btnClear){//清空按钮

etName.setText("");

etHeight.setText("");

etWeight.setText("");

tvResult.setText("");

rbMale.setChecked(true);

tvResult.setTextColor(Color.BLACK);

}

}

}

布局文件代码

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical" >

<TextView

android:layout\_width="match\_parent"

android:layout\_height="100dp"

android:gravity="center"

android:text="BMI计算器"

android:textSize="36sp"

android:textStyle="bold" />

<RadioGroup

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_gravity="center"

android:orientation="horizontal" >

<RadioButton

android:id="@+id/rbMale"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="男"

android:textSize="20sp" />

<RadioButton

android:id="@+id/rbFemale"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="女"

android:textSize="20sp" />

</RadioGroup>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="30dp"

android:orientation="horizontal" >

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="姓名："

android:textSize="20sp" />

<EditText

android:id="@+id/etName"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="请输入姓名"

android:textSize="20sp" />

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="30dp"

android:orientation="horizontal" >

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="身高（cm）："

android:textSize="20sp" />

<EditText

android:id="@+id/etHeight"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="输入你的身高"

android:numeric="decimal"

android:textSize="20sp" />

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="30dp"

android:orientation="horizontal" >

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="体重（kg）："

android:textSize="20sp" />

<EditText

android:id="@+id/etWeight"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="输入你的体重"

android:numeric="decimal"

android:textSize="20sp" />

</LinearLayout>

<TextView

android:id="@+id/tvResult"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="10dp"

android:gravity="center"

android:textSize="20sp" />

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="30dp"

android:orientation="horizontal" >

<Button

android:id="@+id/btnClear"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="140dp"

android:text="清空" />

<Button

android:id="@+id/btnCalc"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="90dp"

android:text="计算"

android:textSize="20sp" />

</LinearLayout>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="50dp"

android:gravity="center"

android:text="李林泽"

android:textSize="30sp" />

<TextView

android:layout\_width="match\_parent"

android:layout\_height="20dp"

android:gravity="center"

android:text="18131203051"

android:textSize="15sp" >

</TextView>

</LinearLayout>

执行结果

