W4

string.xml:

 <resources>  
 <string name="app\_name">My Java App</string>  
 <string name="ph">Call phone</string>  
 <string name="we">URL</string>  
 <string name="sel">Your selection:</string>  
 <string name="sms">SMS</string>  
 <string name="ma">Map</string>  
 <string name="se">Search</string>  
 <string name="ip1">Input Data</string>  
 <string name="er">No data</string>  
 <string name="sco">Compute Score</string>  
 <string name="avg">Compute Average</string>  
 <string name="id">Stu\_id</string>  
 <string name="na">Name</string>  
 <string name="send">Send</string>  
 <string name="rr">Result:</string>  
 <string name="ch">Chinese</string>  
 <string name="en">English</string>  
 <string name="aav">Average</string>  
 <string name="rev">Receive:</string>  
</resources>

zh-rTW\string.xml:

*<?*xml version="1.0" encoding="utf-8"*?>*<resources>  
 <string name="app\_name">我的程式</string>  
 <string name="ph">打電話</string>  
 <string name="we">連網頁</string>  
 <string name="sel">您的選擇</string>  
 <string name="sms">發簡訊</string>  
 <string name="ma">連接到地圖</string>  
 <string name="se">搜尋</string>  
 <string name="ip1">輸入資料</string>  
 <string name="er">沒有資料</string>  
 <string name="sco">計算成績</string>  
 <string name="avg">計算平均</string>  
 <string name="id">學號</string>  
 <string name="na">姓名</string>  
 <string name="send">送出</string>  
 <string name="rr">結果</string>  
 <string name="ch">國文</string>  
 <string name="en">英文</string>  
 <string name="aav">平均</string>  
 <string name="rev">接收到</string>  
</resources>

AndroidManifest.xml:

*<?*xml version="1.0" encoding="utf-8"*?>*<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools" >  
  
 <uses-permission android:name="android.permission.INTERNET" />  
 <uses-permission android:name="android.permission.CALL\_PHONE" />  
 <uses-permission android:name="android.permission.SEND\_SMS" />  
  
 <application  
 android:allowBackup="true"  
 android:dataExtractionRules="@xml/data\_extraction\_rules"  
 android:fullBackupContent="@xml/backup\_rules"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/sco"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.W4\_209410314"  
 tools:targetApi="31" >  
 <activity  
 android:name=".Compavg"  
 android:label="@string/avg"  
 android:exported="false" />  
 <activity  
 android:name=".MainActivity"  
 android:exported="true" >  
 <intent-filter>  
 <action android:name="android.intent.action.MAIN" />  
  
 <category android:name="android.intent.category.LAUNCHER" />  
 </intent-filter>  
 </activity>  
 </application>  
  
</manifest>

activity\_main.xml:

*<?*xml version="1.0" encoding="utf-8"*?>*<RelativeLayout 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="match\_parent"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/sel"  
 android:id="@+id/res" />  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/res"  
 android:text="@string/ip1" />  
  
 <EditText  
 android:id="@+id/ed1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/res"  
 android:layout\_toRightOf="@id/textView"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text=""/>  
  
 <Button  
 android:id="@+id/b1"  
 android:layout\_width="70sp"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/ed1"  
 android:text="@string/ph" />  
  
 <Button  
 android:id="@+id/b2"  
 android:layout\_width="70sp"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/ed1"  
 android:layout\_toRightOf="@+id/b1"  
 android:text="@string/we" />  
  
 <Button  
 android:id="@+id/b3"  
 android:layout\_width="70sp"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/ed1"  
 android:layout\_toRightOf="@+id/b2"  
 android:text="@string/sms" />  
  
 <Button  
 android:id="@+id/b4"  
 android:layout\_width="80sp"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/ed1"  
 android:layout\_toRightOf="@+id/b3"  
 android:text="@string/ma" />  
  
 <Button  
 android:id="@+id/b5"  
 android:layout\_width="80sp"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/ed1"  
 android:layout\_toRightOf="@+id/b4"  
 android:text="@string/se" />  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/b1"  
 android:text="@string/id" />  
  
 <EditText  
 android:id="@+id/ed2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:layout\_below="@+id/b1"  
 android:layout\_toRightOf="@+id/textView2"  
 android:inputType="textPersonName"  
 android:text="" />  
  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/ed2"  
 android:text="@string/na" />  
  
 <EditText  
 android:id="@+id/ed3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:layout\_below="@+id/ed2"  
 android:layout\_toRightOf="@+id/textView3"  
 android:inputType="textPersonName"  
 android:text="" />  
  
 <Button  
 android:id="@+id/b6"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/ed3"  
 android:text="@string/send" />  
  
 <TextView  
 android:id="@+id/tv1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/b6"  
 android:text="@string/rr" />  
  
</RelativeLayout>

activity\_compavg.xml:

*<?*xml version="1.0" encoding="utf-8"*?>*<RelativeLayout 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="match\_parent"  
 tools:context=".Compavg">  
  
 <TextView  
 android:id="@+id/res1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="" />  
  
 <TextView  
 android:id="@+id/textView4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/res1"  
 android:text="@string/ch" />  
  
 <EditText  
 android:id="@+id/ed4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:layout\_below="@+id/res1"  
 android:layout\_toRightOf="@+id/textView4"  
 android:inputType="textPersonName"  
 android:text="" />  
  
 <TextView  
 android:id="@+id/textView5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/ed4"  
 android:text="@string/en" />  
  
 <EditText  
 android:id="@+id/ed5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:layout\_below="@+id/ed4"  
 android:layout\_toRightOf="@+id/textView5"  
 android:inputType="textPersonName"  
 android:text="" />  
  
 <Button  
 android:id="@+id/b7"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/ed5"  
 android:text="@string/aav"/>  
</RelativeLayout>

MainActivity.java:  
package com.example.w4\_209410314;  
  
import …  
  
public class MainActivity extends AppCompatActivity implements View.OnClickListener {  
  
 Button b1,b2,b3,b4,b5,b6; TextView rr; EditText e1,e2,e3;  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 rr=(TextView) findViewById(R.id.*res*);  
 b1=(Button) findViewById(R.id.*b1*); b2=(Button) findViewById(R.id.*b2*);  
 b3=(Button) findViewById(R.id.*b3*); b4=(Button) findViewById(R.id.*b4*);  
 b5=(Button) findViewById(R.id.*b5*); b6=(Button) findViewById(R.id.*b6*);  
 e1=(EditText) findViewById(R.id.*ed1*);  
 e2=(EditText) findViewById(R.id.*ed2*);  
 e3=(EditText) findViewById(R.id.*ed3*);  
 b1.setOnClickListener(this); b2.setOnClickListener(this);  
 b3.setOnClickListener(this); b4.setOnClickListener(this);  
 b5.setOnClickListener(this); b6.setOnClickListener(this);  
 }  
  
 public void onClick(View view) {  
 Intent it=new Intent(); Uri u=null; String ss=e1.getText().toString();  
 if(view == b6){  
 it.setClass(this, Compavg.class);  
 *//EditText e2=(EditText) findViewById(R.id.ed2);  
 //EditText e3=(EditText) findViewById(R.id.ed3);* String s1=e2.getText().toString(), s2=e3.getText().toString();  
 if(s1.length() > 0 && s2.length() > 0){  
 Toast.*makeText*(this, s1, Toast.*LENGTH\_SHORT*).show();  
 }  
 else Toast.*makeText*(this, getString(R.string.*er*), Toast.*LENGTH\_SHORT*).show();  
 }  
  
 if(ss.length() > 0){  
 it.setAction(Intent.*ACTION\_VIEW*);  
 if(view == b1){  
 it.setAction(Intent.*ACTION\_DIAL*);  
 u = Uri.*parse*("tel:"+ss);  
 }  
 if(view == b2) u = Uri.*parse*("http://"+ss);  
 if(view == b3) u = Uri.*parse*("sms:"+ss+"?body=hello");  
 if(view == b4) u = Uri.*parse*("geo"+ss);  
 *//TKU: 25.1740706, 121.4451121  
 //北車: 25.04633, 121.51393* if(view == b5){  
 it.setAction(Intent.*ACTION\_WEB\_SEARCH*);  
 it.putExtra(SearchManager.*QUERY*, ss);  
 }  
 it.setData(u); startActivity(it);  
 }  
 else Toast.*makeText*(this, getString(R.string.*er*), Toast.*LENGTH\_SHORT*).show();  
 }  
}

compavg.java:

package com.example.w4\_209410314;  
  
import …  
  
public class Compavg extends AppCompatActivity {  
  
 Intent it; String id1="", na1=""; TextView rr1;  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_compavg*);  
 it=getIntent();  
 id1=it.getStringExtra("id");  
 na1=it.getStringExtra("name");  
 rr1=(TextView) findViewById(R.id.*res1*);  
 String t1=getString(R.string.*rev*)+"\n"+  
 getString(R.string.*id*)+":"+id1+"\n"+  
 getString(R.string.*na*)+":"+na1+"\n";  
 rr1.setText(t1);  
 Toast.*makeText*(this, t1, Toast.*LENGTH\_SHORT*).show();  
 }  
}