W5

string.xml:

 <resources>  
 <string name="app\_name">My Java app</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>  
 <string name="av\_s">Average:</string>  
 <string name="sure">Sure</string>  
 <string name="can">Cancel</string>  
 <string name="err">error</string>  
 <string name="m1">Mini Memo</string>  
 <string name="m2">Edit Memo</string>  
</resources>

zh-rTW\string.xml:

*<?*xml version="1.0" encoding="utf-8"*?>*<resources>  
 <string name="app\_name">計算成績</string>  
 <string name="avg">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">中文:</string>  
 <string name="en">英文:</string>  
 <string name="aav">平均</string>  
 <string name="rev">接收資料:</string>  
 <string name="av\_s">平均:</string>  
 <string name="sure">確定</string>  
 <string name="can">取消</string>  
 <string name="err">有欄位空值</string>  
 <string name="m1">迷你備忘錄</string>  
 <string name="m2">編輯備忘錄</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">  
  
 <application  
 android:allowBackup="true"  
 android:dataExtractionRules="@xml/data\_extraction\_rules"  
 android:fullBackupContent="@xml/backup\_rules"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.W5\_209410314"  
 tools:targetApi="31">  
 <activity  
 android:name=".Comp"  
 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:id="@+id/textView1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/id" />  
  
 <EditText  
 android:id="@+id/ed1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:layout\_toRightOf="@+id/textView1"  
 android:inputType="textPersonName"  
 android:text=""/>  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/ed1"  
 android:text="@string/na" />  
  
 <EditText  
 android:id="@+id/ed2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/ed1"  
 android:ems="10"  
 android:layout\_toRightOf="@+id/textView2"  
 android:inputType="textPersonName"  
 android:text=""/>  
  
 <Button  
 android:id="@+id/b1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/ed2"  
 android:text="@string/send" />  
  
 <TextView  
 android:id="@+id/tv1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/b1"  
 android:text="@string/rr"/>  
  
 <ListView  
 android:id="@+id/lv"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/tv1"/>  
</RelativeLayout>

activity\_comp.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=".Comp">

<TextView  
 android:id="@+id/tv1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/rev"/>  
  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/tv1"  
 android:text="@string/ch"/>  
  
 <EditText  
 android:id="@+id/ed\_ch"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/tv1"  
 android:layout\_toRightOf="@+id/textView3"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text=""/>  
  
 <TextView  
 android:id="@+id/textView4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/ed\_ch"  
 android:text="@string/en"/>

<EditText  
 android:id="@+id/ed\_en"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/ed\_ch"  
 android:layout\_toRightOf="@+id/textView4"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text=""/>  
  
 <Button  
 android:id="@+id/b2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/ed\_en"  
 android:layout\_marginTop="25dp"  
 android:text="@string/aav" />  
  
 <EditText  
 android:id="@+id/ed\_memo"  
 android:layout\_width="match\_parent"  
 android:layout\_height="150sp"  
 android:layout\_below="@+id/b2"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text=""/>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_below="@+id/ed\_memo"  
 android:gravity="right"  
 android:orientation="horizontal">  
  
 <Button  
 android:id="@+id/b\_sure"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/sure"/>  
  
 <Button  
 android:id="@+id/b\_can"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/can"/>  
 </LinearLayout>  
</RelativeLayout>

MainActivity.java:  
package com.example.w5\_209410314;  
  
import …  
public class MainActivity extends AppCompatActivity implements View.OnClickListener,  
 AdapterView.OnItemClickListener, AdapterView.OnItemLongClickListener {  
  
 EditText e1,e2; TextView rr; Button b1; ListView lv;  
 String memo[]={"1.點一下修改","2.長按清除","3.","4.","5.","6."};  
 ArrayAdapter<String> ad;  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 e1=(EditText) findViewById(R.id.*ed1*);  
 e2=(EditText) findViewById(R.id.*ed2*);  
 b1=(Button) findViewById(R.id.*b1*); b1.setOnClickListener(this);  
 rr=(TextView) findViewById(R.id.*tv1*);  
 Intent it=getIntent();  
 String tt=it.getStringExtra("avg");  
 Toast.*makeText*(this, "tt="+tt,Toast.*LENGTH\_SHORT*).show();  
 if(tt != null) rr.setText(getString(R.string.*rr*)+"\n"+tt);  
 lv=(ListView) findViewById(R.id.*lv*);  
 ad=new ArrayAdapter<String>  
 (this, android.R.layout.*simple\_list\_item\_1*, memo);  
 lv.setAdapter(ad);  
 lv.setOnItemClickListener(this);  
 lv.setOnItemLongClickListener(this);  
 }  
 public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {  
 setTitle(getString(R.string.*m1*));  
 Intent it=new Intent(this, Comp.class);  
 it.putExtra("memo", memo[i]);  
 startActivity(it);  
 }  
  
 public boolean onItemLongClick(AdapterView<?> adapterView, View view, int i, long l) {  
 setTitle(getString(R.string.*m1*));  
 memo[i]=(i+1)+"."; ad.notifyDataSetChanged(); return true;  
 }  
  
 public void onClick(View view) {  
 if(view == b1){  
 Intent it = new Intent(this, Comp.class);  
 String id=e1.getText().toString(), name=e2.getText().toString();  
 if(id.length() > 0 && name.length() > 0){  
 it.putExtra("id", id);  
 it.putExtra("na", name);  
 startActivity(it);  
 }  
 else Toast.*makeText*(this, getString(R.string.*err*), Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
}

Comp.java:

package com.example.w5\_209410314;  
  
import …

public class Comp extends AppCompatActivity implements View.OnClickListener {  
  
 TextView tv1; EditText ch,en,ed3; Button b2,bs,bc; String id,name,mo;  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_comp*);  
 tv1=(TextView) findViewById(R.id.*tv1*);  
 Intent it=getIntent();  
 id=it.getStringExtra("id");  
 name=it.getStringExtra("na");  
 mo=it.getStringExtra("memo");  
 if(mo != null) setTitle(getString(R.string.*m2*));  
 tv1.setText(getString(R.string.*rr*)+"\n" +  
 getString(R.string.*id*)+id+"\n" +  
 getString(R.string.*na*) + name + "\n");  
 ch=(EditText)findViewById(R.id.*ed\_ch*);  
 en=(EditText)findViewById(R.id.*ed\_en*);  
 ed3=(EditText)findViewById(R.id.*ed\_memo*); ed3.setText(mo);  
 b2=(Button) findViewById(R.id.*b2*); b2.setOnClickListener(this);  
 bs=(Button) findViewById(R.id.*b\_sure*); bs.setOnClickListener(this);  
 bc=(Button) findViewById(R.id.*b\_can*); bc.setOnClickListener(this);  
 }  
  
 public void onClick(View view) {  
 if(view == bc) finish();  
 if(view == bs);  
 if(view == b2){  
 Intent it = new Intent(this, MainActivity.class);  
 String ch\_s = ch.getText().toString(),  
 en\_s = en.getText().toString();  
 if(ch\_s.length() > 0 && en\_s.length() > 0){  
 double ch\_n=Double.*parseDouble*(ch\_s),  
 en\_n=Double.*parseDouble*(en\_s),  
 avg; avg=(ch\_n + en\_n)/2.0;  
 String tmp = getString(R.string.*id*)+id+"\n"+  
 getString(R.string.*na*)+name+"\n"+  
 getString(R.string.*ch*)+ch\_s+"\n"+  
 getString(R.string.*en*)+en\_s+"\n"+  
 getString(R.string.*av\_s*)+avg+"\n";  
 Toast.*makeText*(this,tmp, Toast.*LENGTH\_SHORT*).show();  
 it.putExtra("avg", tmp); startActivity(it);  
 } else Toast.*makeText*(this, getString(R.string.*err*), Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
}