1.代码分析

public class MainActivity extends Activity implements OnClickListener{

Button btn0;

….

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.main);

btn0=(Button) findViewById(R.id.btn\_0);//实例化控件

….

btn0.setOnClickListener(this);//添加监听器

}

public void onClick(View v) { 接口OnClickListener方法

String str=input.getText().toString();

switch (v.getId()) {

case R.id.btn\_0:

…

case R.id.btn\_9:

case R.id.point:

//textview是否是0或者按了等号，如果是0或者按了等号，再输入数字的时候会清楚textview

if(str.equals("0")||flag==1){

flag=0;

input.setText(((Button)v).getText());

}

else {

flag=0;

input.setText(str+((Button)v).getText());

}

break;

case R.id.multiply:

case R.id.add:

case R.id.sub:

case R.id.divide:

flag=0;

//判断textview是否以符号结尾，是的话进行更新符号

if(input.getText().toString().endsWith("-")||input.getText().toString().endsWith("+")||input.getText().toString().endsWith("×")||input.getText().toString().endsWith("÷")){

input.setText(str.substring(0,str.length()-1)+((Button)v).getText());

}

else

input.setText(str+((Button)v).getText());

//截取符号

op=input.getText().toString().substring(input.getText().toString().length()-1);

break;

case R.id.clear:

flag=0;

input.setText("0");

break;

case R.id.delete:

//判断textview是否是0或者没有按等号的时候

if(!str.equals("0")&&flag==0){

if(input.getText().length()<2)

input.setText("0");

else

input.setText(str.substring(0,str.length()-1));

}

else{

input.setText("0");

flag=0;

}

break;

case R.id.equal:

flag=1;

result();

break;

default:

break;

}

}

private void result(){

String exp=input.getText().toString();

//如果只有数字然后按等号返回数字

if(!exp.contains("+")&&!exp.contains("-")&&!exp.contains("÷")&&!exp.contains("×")){

return ;

//如果是以符号结尾在按等号直接返回数字

}else if (exp.endsWith("+")||exp.endsWith("-")||exp.endsWith("÷")||exp.endsWith("×")) {

input.setText(exp.substring(0, exp.length()-1));

}else{

String fstr=exp.substring(0, exp.indexOf(op));

String sstr=exp.substring(exp.indexOf(op)+1);

double fstr1=Double.parseDouble(fstr);

double sstr1=Double.parseDouble(sstr);

String result;

if(op.equals("+")){

result=String.valueOf(fstr1+sstr1);

if(result.substring(result.indexOf(".")).equals(".0")){

input.setText(result.substring(0,result.length()-2));

}

else

input.setText(result);

}

else if(op.equals("-")){

result=String.valueOf(fstr1-sstr1);

if(result.substring(result.indexOf(".")).equals(".0")){

input.setText(result.substring(0,result.length()-2));

}

else

input.setText(result);

}

else if(op.equals("×")){

result=String.valueOf(fstr1\*sstr1);

if(result.substring(result.indexOf(".")).equals(".0")){

input.setText(result.substring(0,result.length()-2));

}

else

input.setText(result);

}

else{

result=String.valueOf(fstr1/sstr1);

if(result.substring(result.indexOf(".")).equals(".0")){

input.setText(result.substring(0,result.length()-2));

}

else

input.setText(result);

}

}

}