

# The Functions of Calculator

The calculator has implemented all functions. The following is the details.

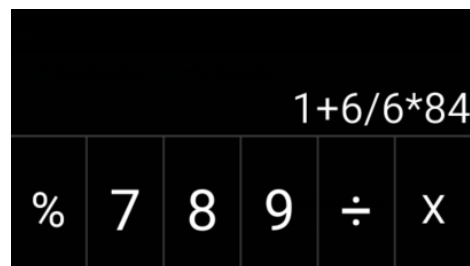
## 1. Operation logic

Any apps have their own operation sequence; programmers should make sure the users can operate correctly.

For example, when the calculator is started or pressed C key, the number keys, - key, + key and MRC key can be pressed and other keys cannot be pressed.

## 2. Basic four operations

The basic +, -, \*, / operations can work correctly.



## 3. % and $\sqrt{\quad}$ operations

For % operation

When just input a positive or negative number N, pressing % key will get the result of  $N/100$ . When the expression contains  $N1 + N2$  or  $N1 - N2$ , pressing % will make the result of  $N1 * (1 + N2 / 100)$  or  $N1 * (1 - N2 / 100)$  replace  $N1 + N2$  or  $N1 - N2$  in the expression. When the expression contains  $N1 * N2$  or  $N1 / N2$ , pressing % will make the

result of  $N1 * (N1 * N2 / 100)$  or  $N1 / (N1 * N2 / 100)$  replace  $N1 * N2$  or  $N1 / N2$  in the expression.

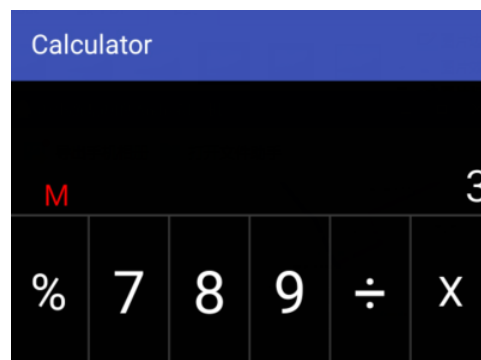
For  $\sqrt{\quad}$  operation

When pressing = key and get the result N, when  $N < 0$ , after pressing  $\sqrt{\quad}$ , the screen will show “Illegal”. When the expression contains +N or -N or \*N or /N, pressing  $\sqrt{\quad}$  will make  $+\sqrt{N}$  or  $-\sqrt{N}$  or  $*\sqrt{N}$  or  $/\sqrt{N}$  replace +N or -N or \*N or /N.

#### 4. M+, M-, MRC operation

The initial value of Memory M is 0;

When  $M \neq 0$ , then a red M will appear on the left of the screen and when  $M = 0$ , the red M will disappear on the screen .



For M+ or M- operation

When the expression has only a positive or negative number N including the number got through pressing = key, if  $N \neq 0$  then pressing M+ or M- will let  $M = M + N$  or  $M = M - N$ .

When the expression contains number N and the number N is the last of the expression without positive or negative symbol, pressing M+ or M- will let  $M = M + N$  or  $M = M - N$ .

For MRC operation

When press MRC firstly, if the last one of the expression is a number N without the positive or negative symbol, then the M will replace N; the last one is + or - or \* or /, then the M will be added behind the last one.

## **5. digital accuracy**

The digital accuracy of the result is six.