

## Experiment 2 Data type, operator and simple input and output

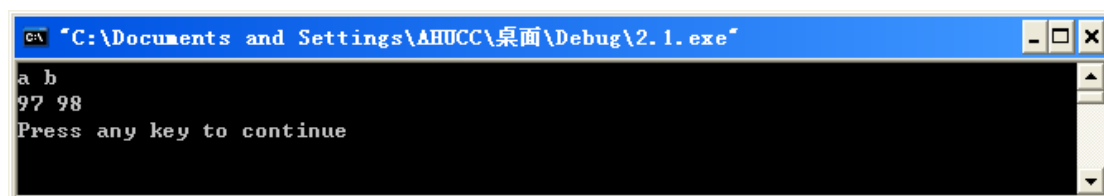
### 1. Purpose of the experiment

- (1) Master the data type of C language, and understand the internal relationship between character data and plastic data.
- (2) Correct input method of numerical data
- (3) Learn to use the arithmetic operators related to C and the expressions containing these operators, especially the use of the self-addition (++) and self-subtraction (--) operators.
- (4) Learn to write and run simple applications.
- (5) Be familiar with the process of editing, mutation, connection and operation of C program.

### 2. Experiment content and steps

- (1) Input and run the program given in Chapter 3, Question 4 of the textbook:

```
#include <stdio.h>
int main()
{
    char c1,c2;
    c1=97;
    c2=98;
    printf("%c %c\n",c1,c2);
    printf("%d %d\n",c1,c2);
    return 0;
}
```



If lines 4 and 5 of the procedure are changed to

```
C1=197;
```

```
C2=198;
```

What information will be output during operation? Why?

```
#include <stdio.h>
int main()
{
    char c1,c2;
    c1=197;
    c2=198;
    printf("%c %c\n",c1,c2);
    printf("%d %d\n",c1,c2);
    return 0;
}
```

Because the valid range of char type variables to store characters is 0~127