

```
1 /* prog5_1, 設定運算子「=」 */
2 #include <stdio.h>
3 #include <stdlib.h>
4 int main(void)
5 {
6     int age=18;
7
8     printf("age=%d\n", age);
9     age=age+1; /* 將age加1後,再設回給age存放 */
10    printf("將age加1之後,age=%d\n", age);
11
12    system("pause");
13    return 0;
14 }
```

Compilation results...

Done parsing in 0.015 seconds

```
1 /* prog5_2, 「!」運算的用法 */
2 #include <stdio.h>
3 #include <stdlib.h>
4 int main(void)
5 {
6     int a=3;
7     int b=10;
8     printf("a=%d, !a=%d\n", a, !a); /* 印出a及!a的值 */
9     printf("b=%d, !b=%d\n", b, !b); /* 印出b及!b的值 */
10
11    system("pause");
12    return 0;
13 }
14
```

Compilation results...

Done parsing in 0.015 seconds

```
D:\4070E016\code\prog5_3 - [Executing] - Dev-C++ 3.11
File Edit Search View Project Execute Tools Add-ons Window Help
Compiler: TDM-GCC 4.9.2 64-bit Release
Project: prog5_3
1 /* prog5_3, 餘數運算子的練習 */
2 #include <stdio.h>
3 #include <stdlib.h>
4 int main(void)
5 {
6     printf("12%4=%d\n", 12%4); /* 求出12/4的餘數 */
7     printf("12%5=%d\n", 12%5); /* 求出12/5的餘數 */
8     printf("12%16=%d\n", 12%16); /* 求出12/16的餘數 */
9
10    system("pause");
11    return 0;
12 }
13

D:\4070E016\code\prog5_3.exe
12%4=3
12%5=2
12%16=12
請按任意鍵繼續 . . .

Compiler: TDM-GCC 4.9.2 64-bit Release
Project: prog5_3
Compilation results...
Errors: 0
Warnings: 0
Output File: D:\4070E016\code\prog5_3.exe
Output Size: 128,102,390,425 B
Compilation Time: 0.17s
```

```
D:\4070E016\code\prog5_4 - [Executing] - Dev-C++ 3.11
File Edit Search View Project Execute Tools Add-ons Window Help
Compiler: TDM-GCC 4.9.2 64-bit Release
Project: prog5_4
1 /* prog5_4, 關係運算子的練習 */
2 #include <stdio.h>
3 #include <stdlib.h>
4 int main(void)
5 {
6     if(8>2) /* 判斷8>2是否成立 */
7         printf("8>2成立\n");
8
9     if(1) /* 1代表true, 所以if的判斷結果會成立 */
10        printf("此行一定會被執行\n");
11
12    if(5==10) /* 判斷5是否等於10 */
13        printf("3==8成立\n");
14
15    system("pause");
16    return 0;
17 }
18

D:\4070E016\code\prog5_4.exe
8>2成立
此行一定會被執行
Process exited after 4.346 seconds with return value 0
請按任意鍵繼續 . . .

Compiler: TDM-GCC 4.9.2 64-bit Release
Project: prog5_4
Compilation results...
Errors: 0
Warnings: 0
Output File: D:\4070E016\code\prog5_4.exe
Output Size: 128,100,589,375 B
Compilation Time: 0.30s
```

The screenshot shows a C++ IDE with the following code in `prog5_5.c`:

```
1 /* prog5_5, 遞增運算子「++」 */
2 #include <stdio.h>
3 #include <stdlib.h>
4 int main(void)
5 {
6     int a=5, b=4;
7
8     printf("a=%d",a);
9     printf(", ++a的傳回值為%d",a++); /* 計算a++，並印出其傳回值 */
10    printf(", a=%d\n",a);
11
12    printf("b=%d",b);
13    printf(", ++b的傳回值為%d",++b); /* 計算++b，並印出其傳回值 */
14    printf(", b=%d\n",b);
15
16    system("pause");
17    return 0;
18 }
19
```

The output window shows the following text:

```

a=5, ++a的傳回值為6, a=6
b=4, ++b的傳回值為5, b=5
請按任意鍵繼續 . . .
Process exited after 1.944 seconds with return value 0
請按任意鍵繼續 . . .

```

The compiler results window shows:

```

Compilation results...
-----
- Errors: 0
- Warnings: 0
- Output Filename: D:\4070021\code\gprog5_5.exe
- Output Size: 128,602,390,425 B
- Compilation Time: 0.17s

```

The screenshot shows a C++ IDE with the following code in `prog5_6.c`:

```
1 /* prog5_6, 邏輯運算子的應用 */
2 #include <stdio.h>
3 #include <stdlib.h>
4 int main(void)
5 {
6     int score;
7     printf("請輸入成績:");
8     scanf("%d",&score);
9
10    if ((score<0) || (score>100)) /* 若成績超出0到100之間 */
11        printf("成績輸入錯誤!!\n");
12
13    if ((score<60) && (score>49)) /* 若成績介於50到59之間 */
14        printf("需要補考!!\n");
15
16    system("pause");
17    return 0;
18 }
19
```

The output window shows the following text:

```

請輸入成績:200
成績輸入錯誤!!
請按任意鍵繼續 . . .
Process exited after 3.075 seconds with return value 0
請按任意鍵繼續 . . .

```

The compiler results window shows:

```

Compilation results...
-----
- Errors: 0
- Warnings: 0
- Output Filename: D:\4070021\code\gprog5_6.exe
- Output Size: 128,941,402,5 B
- Compilation Time: 0.23s

```

