

**logical\_operator.c**

```
1  #include <stdio.h>
2
3  // C program to demonstrate logical operators
4
5  int main (){
6      int a = 5, b = 5, c = 10, result;
7      result = (a = b) && (c > b);
8      printf("(a = b) && (c > b) equals to %d \n", result);
9      result = (a = b) && (c < b);
10     printf("(a = b) && (c < b) equals to %d \n", result);
11     result = (a = b) || (c < b);
12     printf("(a = b) || (c < b) equals to %d \n", result);
13     result = (a != b) || (c < b);
14     printf("(a != b) || (c < b) equals to %d \n", result);
15     result = !(a != b);
16     printf("!(a == b) equals to %d \n", result);
17     result = !(a == b);
18     printf("!(a == b) equals to %d \n", result);
19     return 0;
20 }
21
22 /*****
23  * Output: a=b=5, c=10
24  *****/
25 (a = b) && (c > b) equals to 1
26 (a = b) && (c < b) equals to 0
27 (a = b) || (c < b) equals to 1
28 (a != b) || (c < b) equals to 0
29 !(a == b) equals to 1
30 !(a == b) equals to 0
31 */
```