

The image shows a screenshot of the Turbo C++ (TC) IDE. The top window is the 'Edit' window, displaying a C program. The code is as follows:

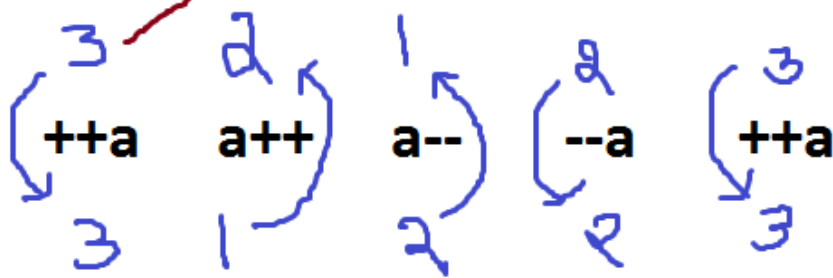
```
Line 12 Col 1 Insert Indent Tab Fill Unindent * E:4PMNET.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a=2;
clrscr();
printf("%d, %d, %d, %d, %d\n",++a, a++, a--, --a, ++a );
printf("%d, %d, %d, %d, %d",++a,a*10,a=10,a++,++a);
getch();
}
/* In printf execution order right to left and printing is left to right */
```

The bottom window is the 'Output' window, showing the execution results:

```
3, 1, 2, 2, 3
11, 100, 10, 4, 4_
```

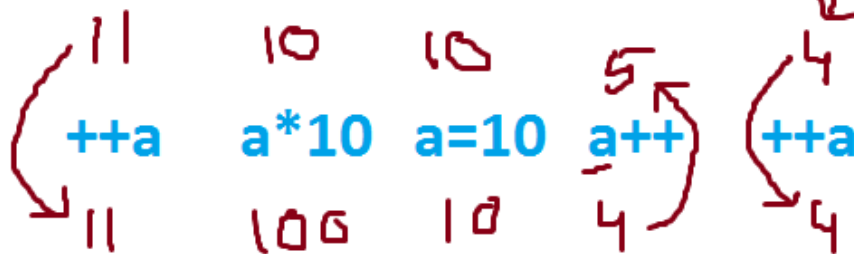
The Windows taskbar at the bottom shows the time as 4:44 PM on 17-Aug-23. An 'Activate Windows' watermark is visible in the bottom right corner of the output window.

a=2



a value

output



a value

output

TC

Edit

Line 1 Col 21 Insert Indent Tab Fill Unindent * E:4PMNET.C

```
#include<stdio.h>
#include<conio.h>
main()
{
int a=2;
clrscr();
printf("%d,%d,%d\n",++a,printf("Hello"),a=25);
printf("%d,%d\n", ++a, ++a, a=1);
printf("%d\n", ++a, a=20);
printf("%d,%d,%d", ++a + printf("Thank you"),a++,a++ + printf("GOOD BYE"));
getch();
}
```

Activate Windows
Go to PC settings to activate Windows.

TC

Hello26,5,25
3,1
21
GOOD BYEThank you33,22,29_

Activate Windows
Go to PC settings to activate Windows.

Page: 2 of 2 Words: 0

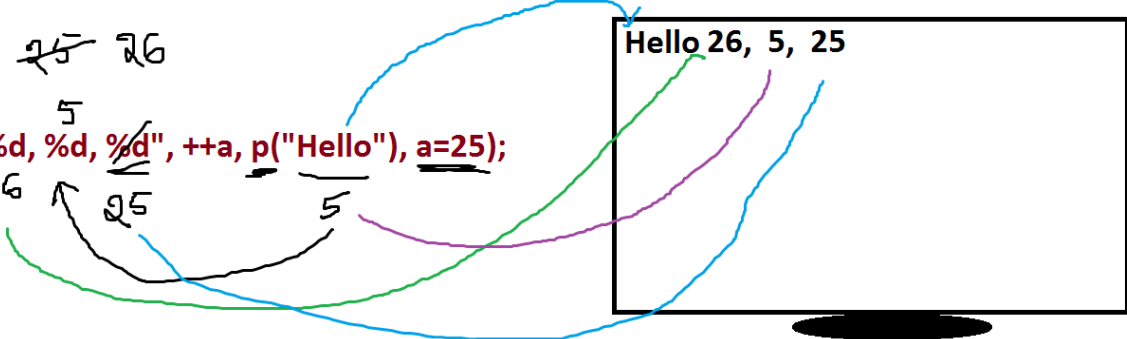
~~a=2~~ ~~25~~ 26

5
p("%d, %d, %d", ++a, p("Hello"), a=25);

26 25

5

Hello 26, 5, 25



TC

File Edit Run Compile Project Options Debug Break/watch

Edit

Line 14 Col 18 Insert Indent Tab Fill Unindent * E:4PMNET.C

```
#include<stdio.h>
#include<conio.h>
main()
{
int a=5;
clrscr();
a = a++ + ++a;
printf("%d\n",a);
a=5;
printf("%d\n", a++ + ++a);
printf("a=%d", a );
getch();
}
/* a=13, a=12 a=7*/
```

Activate Windows
Go to PC settings to activate Windows.

13
12
a=7_

TC

Activate Windows
Go to PC settings to activate Windows.

a=5

a = a++ + ++a; priority: ++a, +, =, a++

1. ++a ==> a=6

2. a = a + a ==> 6 + 6

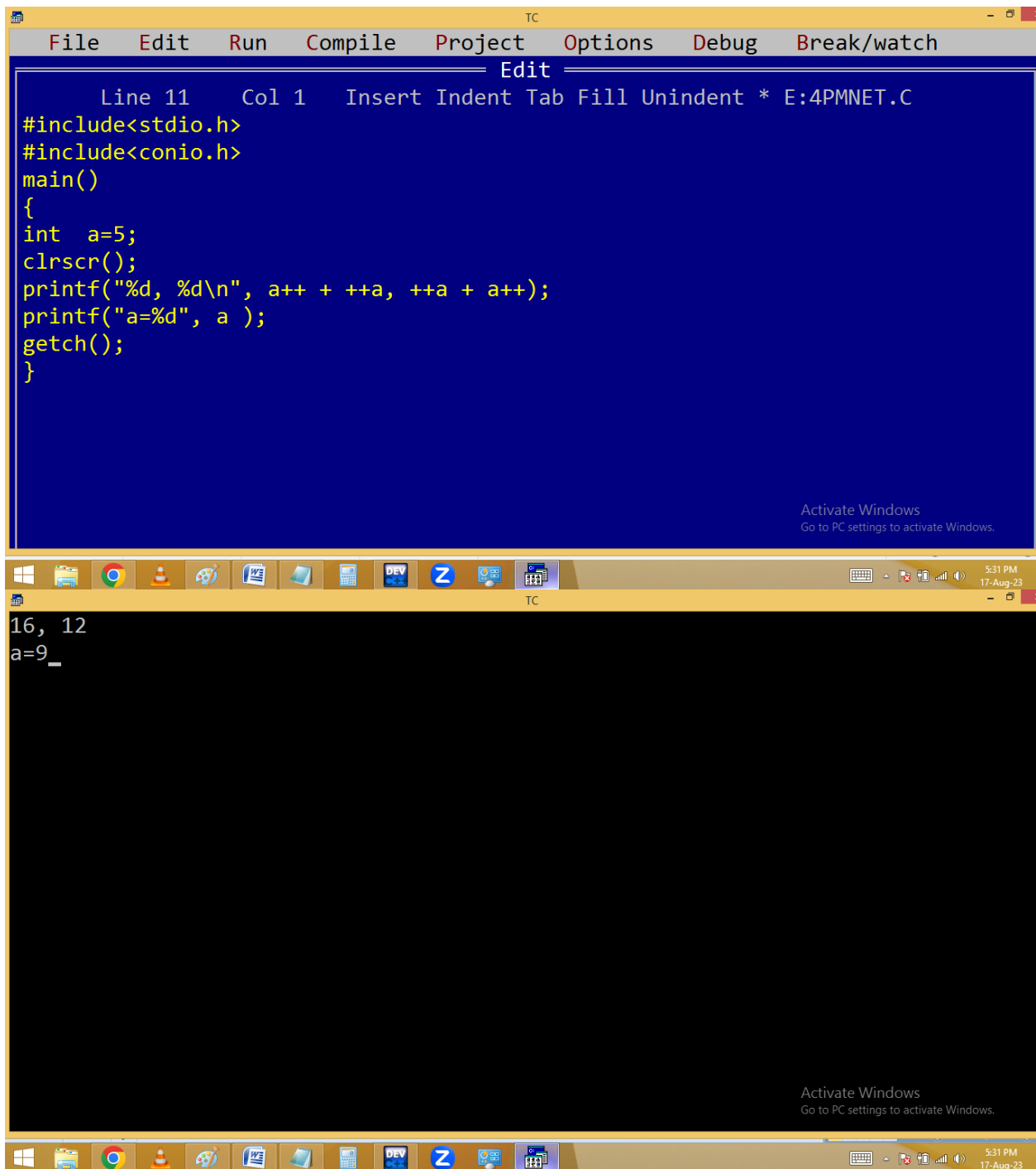
3. a = 12

4. a++ ==> **a=13**

a=~~5~~ 7

p("%d", a++ + ++a);

$$\begin{array}{r} 5 + 7 \\ \hline 12 \end{array}$$



~~a=5~~ ~~6~~ ~~7~~ ~~8~~ 9 ✓
 16 ✓ 12 ✓ 8 → 9
 p("%d, %d", a++ + ++a, ++a + a++);
 7 + 9 6 + 6
 16 12
 p(a);


```
TC
File Edit Run Compile Project Options Debug Break/watch
Edit
Line 13 Col 26 Insert Indent Tab Fill Unindent * E:4PMNET.C
#include<stdio.h>
#include<conio.h>
main()
{
int a,b,c,d;
clrscr();
a=b=c=3;
d = ++a >=4 && b++ != ++c;
printf("a=%d, b=%d, c=%d, d=%d", a, b, c, d);
getch();
}

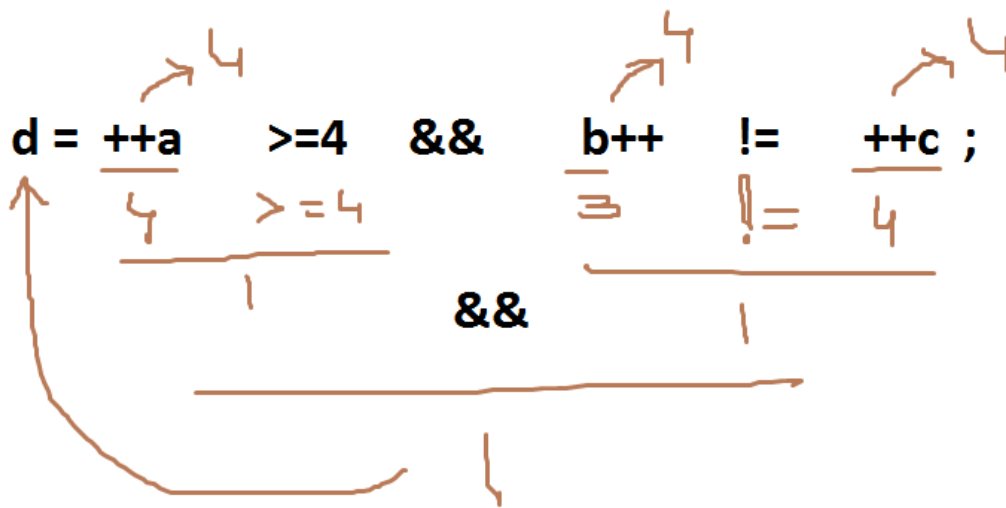
/* a=4, b=4, c=4, d=1 */
```

Activate Windows
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a=3

b=3

c=3



```
TC
File Edit Run Compile Project Options Debug Break/watch
Edit
Line 13 Col 26 Insert Indent Tab Fill Unindent * E:4PMNET.C
#include<stdio.h>
#include<conio.h>
main()
{
int a,b,c,d;
clrscr();
a=b=c=3;
d = ++a >= b++ && b++ != ++c;
printf("a=%d, b=%d, c=%d, d=%d", a, b, c, d);
getch();
}

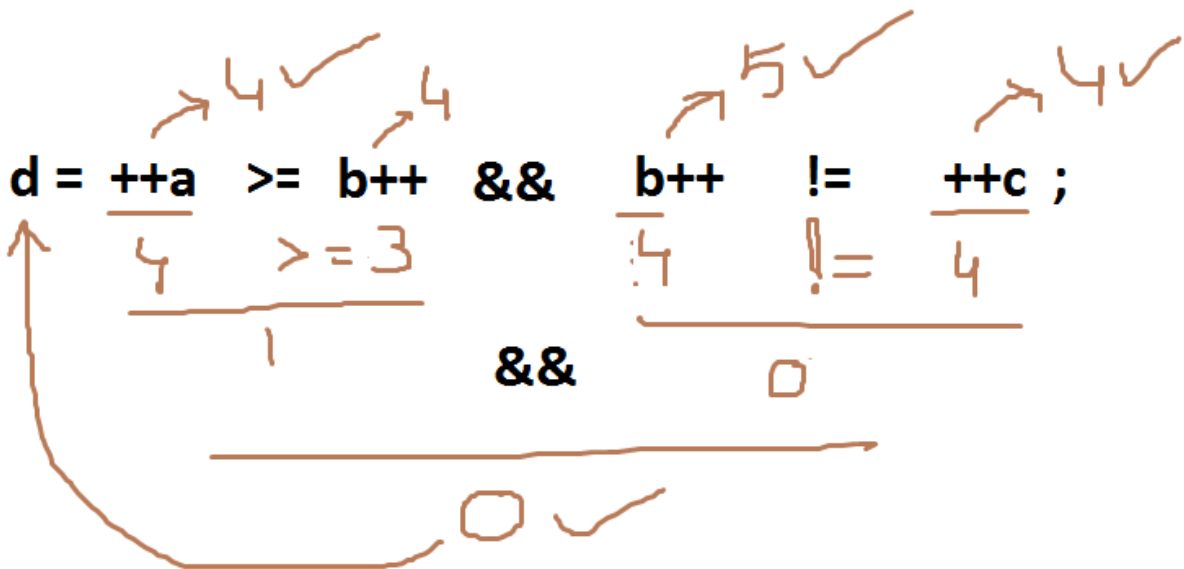
/* a=4, b=5, c=4, d=0 */

Activate Windows
Go to PC settings to activate Windows.
```

a=3

b=3

c=3



```
TC
File Edit Run Compile Project Options Debug Break/watch
Edit
Line 13 Col 26 Insert Indent Tab Fill Unindent * E:4PMNET.C
#include<stdio.h>
#include<conio.h>
main()
{
int a,b,c,d;
clrscr();
a=b=c=3;
d = ++a >= b++ || b++ != ++c;
printf("a=%d, b=%d, c=%d, d=%d", a, b, c, d);
getch();
}

/* a=4, b=4, c=3, d=1 */

Activate Windows
Go to PC settings to activate Windows.
```

a=3 b=3 c=3 ✓

d = ++a >= b++ || ~~b++ != ++c ;~~

↑ 4 ✓ 4

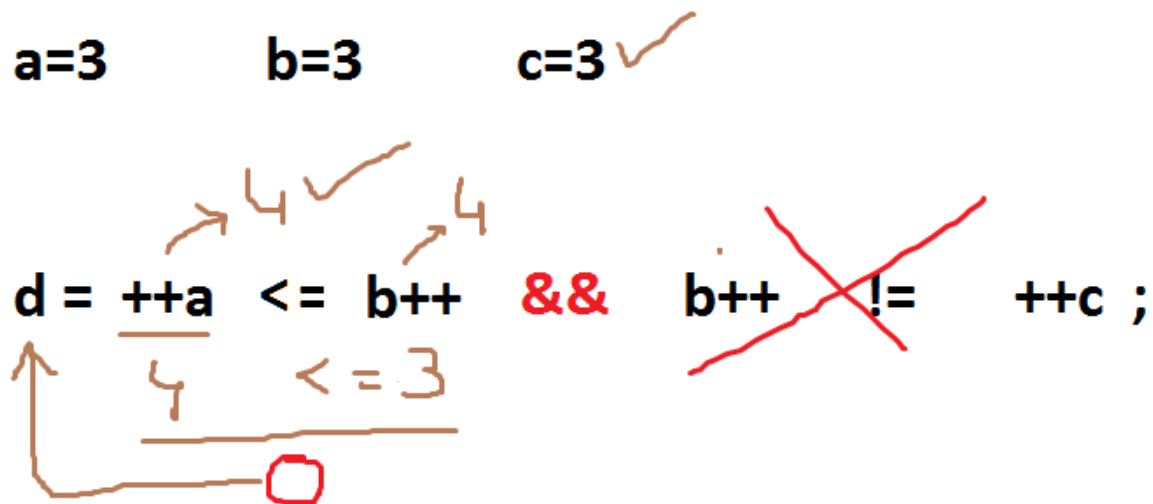
4 >= 3

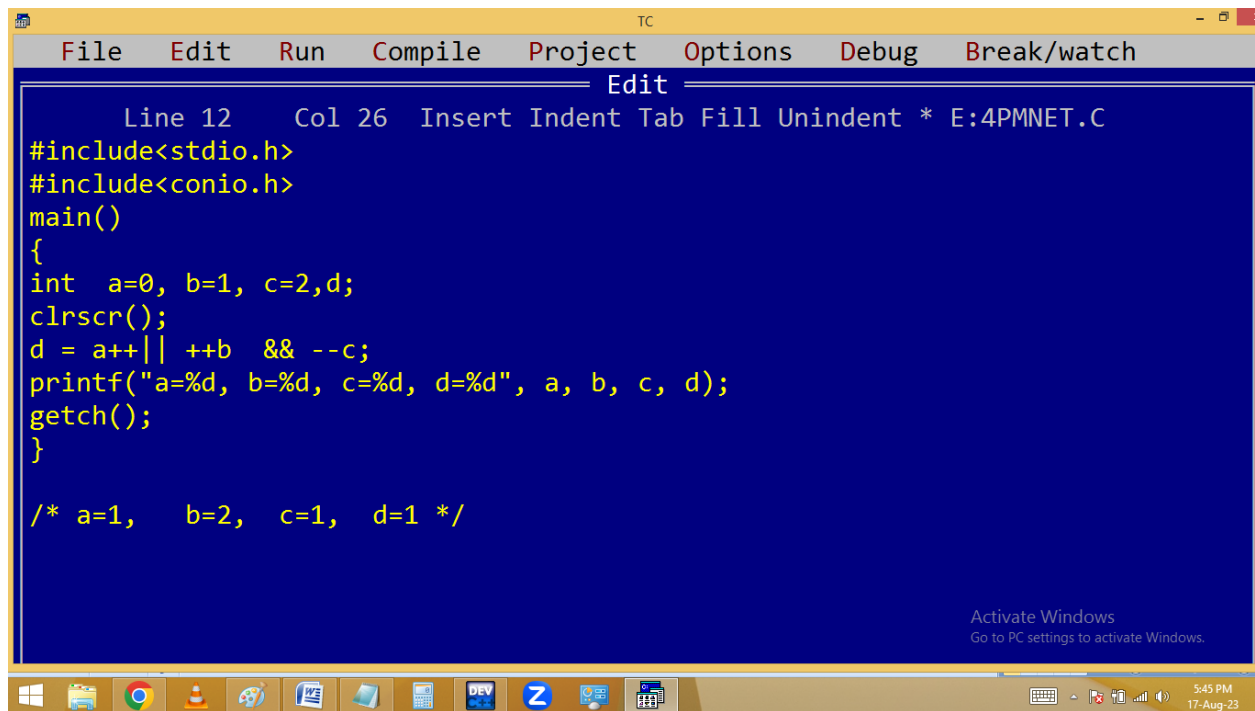
1

```
TC
File Edit Run Compile Project Options Debug Break/watch
Edit
Line 13 Col 26 Insert Indent Tab Fill Unindent * E:4PMNET.C
#include<stdio.h>
#include<conio.h>
main()
{
int a,b,c,d;
clrscr();
a=b=c=3;
d = ++a <= b++ && b++ != ++c;
printf("a=%d, b=%d, c=%d, d=%d", a, b, c, d);
getch();
}

/* a=4, b=4, c=3, d=0 */

Activate Windows
Go to PC settings to activate Windows.
```





```
TC
File Edit Run Compile Project Options Debug Break/watch
Edit
Line 12 Col 26 Insert Indent Tab Fill Unindent * E:4PMNET.C
#include<stdio.h>
#include<conio.h>
main()
{
int a=0, b=1, c=2,d;
clrscr();
d = a++|| ++b && --c;
printf("a=%d, b=%d, c=%d, d=%d", a, b, c, d);
getch();
}

/* a=1, b=2, c=1, d=1 */

Activate Windows
Go to PC settings to activate Windows.
```

a=0 b=1 c=2

d = ^{a1} a++ || ^{a2} ++b && ^{a1} --c;

