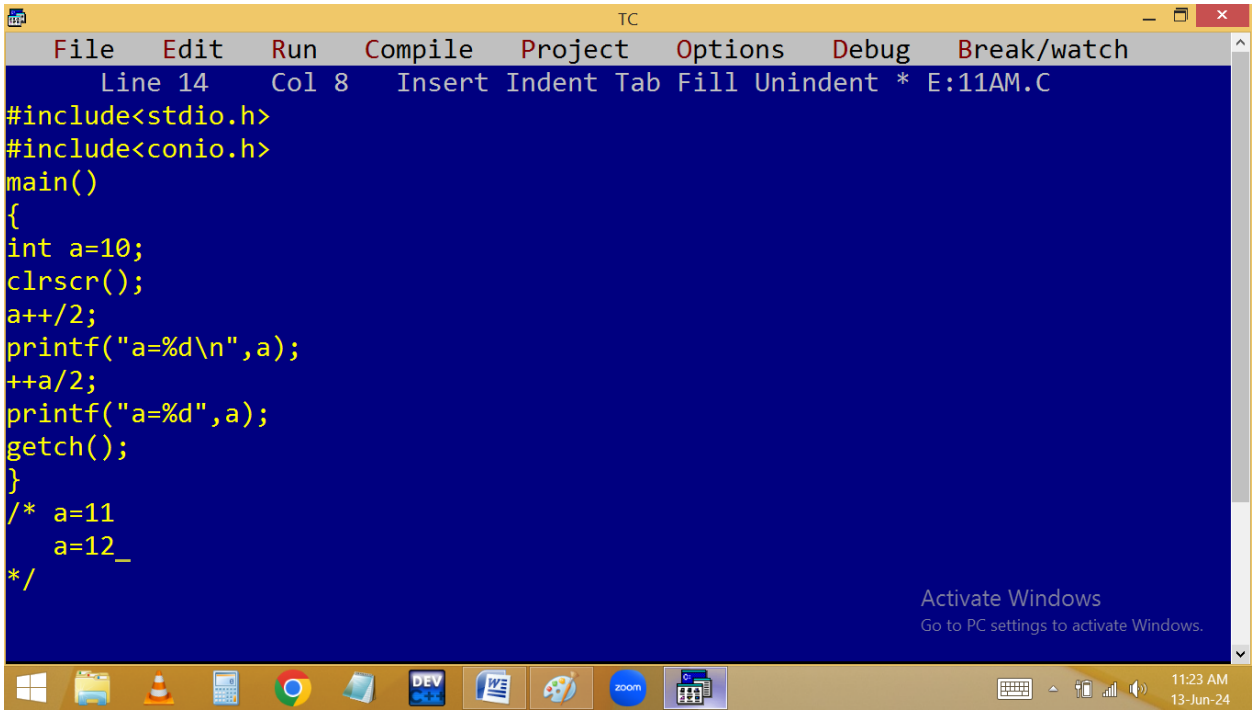


a=10

a++/2; priority: /, a++

1. a/2==>10/2=5 [5 not stored in a because of = not used]

i.e. a = 10

2. a++ ==> a=11

printf(a) ==> a=11

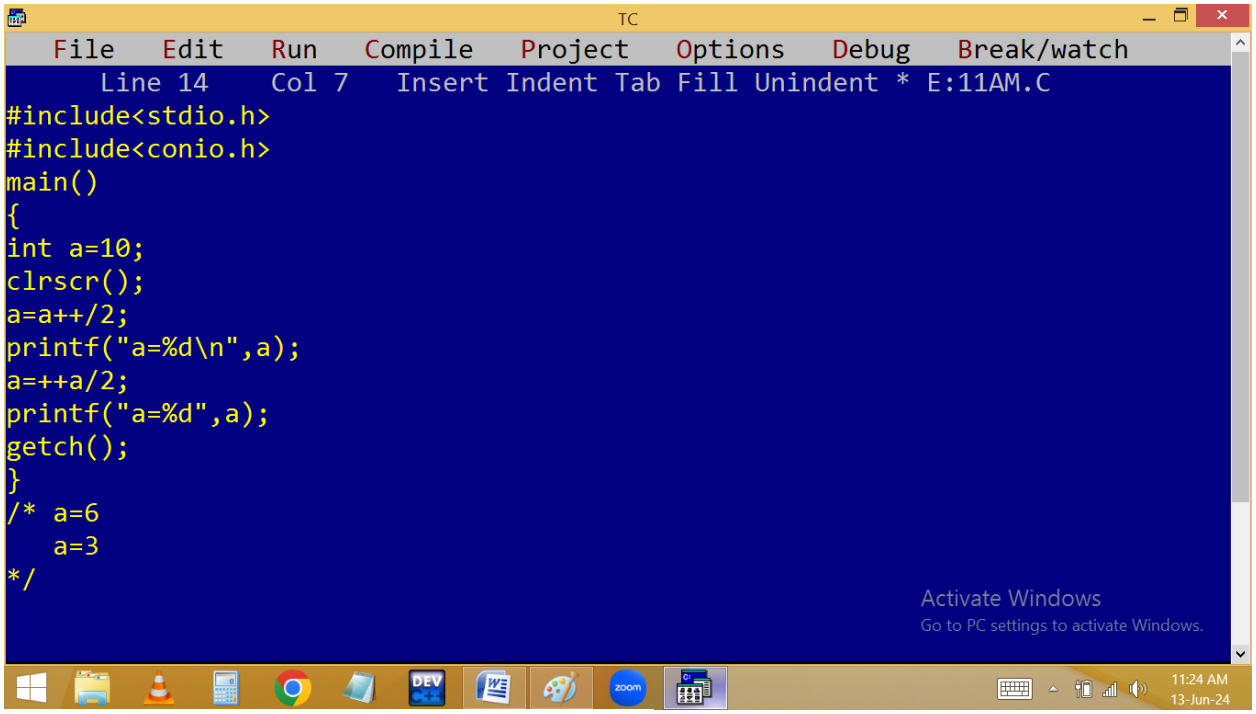
++a/2; priority: ++a, /

1. ++a ==> a=12

2. a/2==> 12/2=6 [6 not stored in a because of = not used]

i.e. a=12

printf(a) ==> a=12



a=10

a=a++/2; priority: /, =, a++

1. a=a/2==>10/2=5

2. a=5

3. a++ ==> a=6

printf(a) ==> a=6

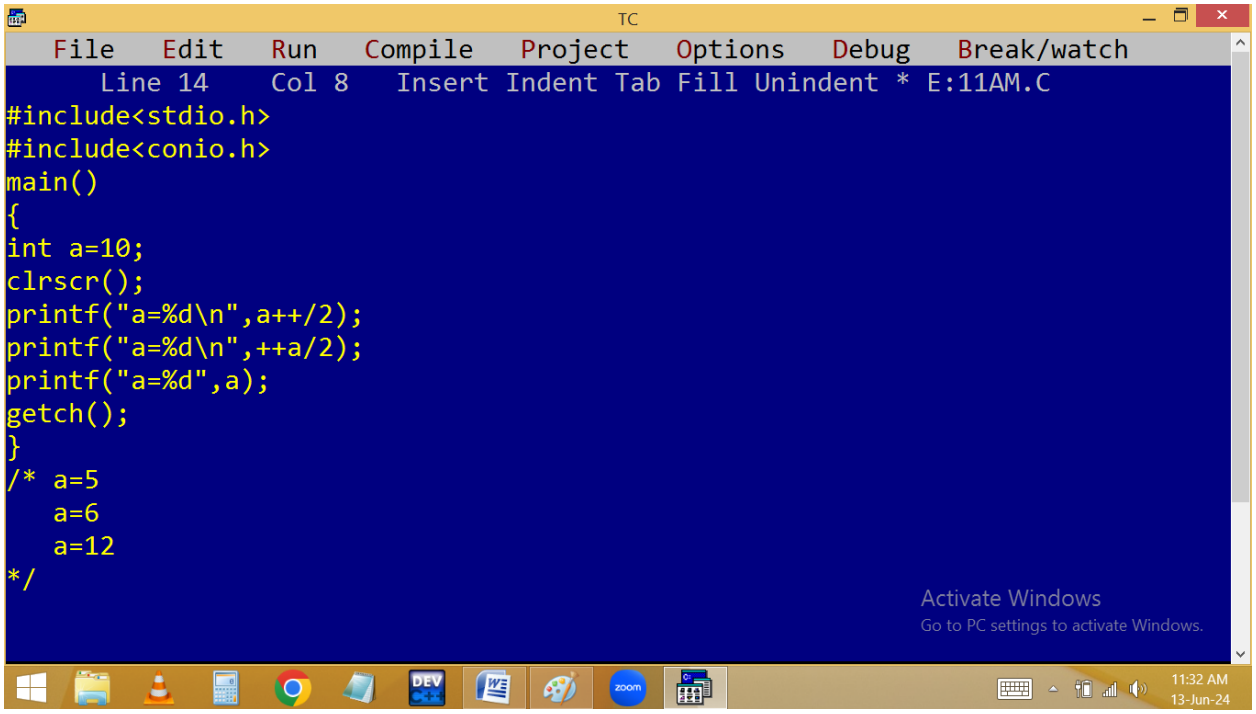
a=++a/2; priority: ++a, /, =

1. ++a==>a=7

2. a=a/2==>7/2=3

3. a=3

printf(a) ==> a=3



printf(a++/2);

priority: /, printf, a++

1. a/2 ==> 10/2=5

2. printf(5) [5 not stored because of = not used i.e. a = 10]

3. a++ ==> a=11

p(++a/2);

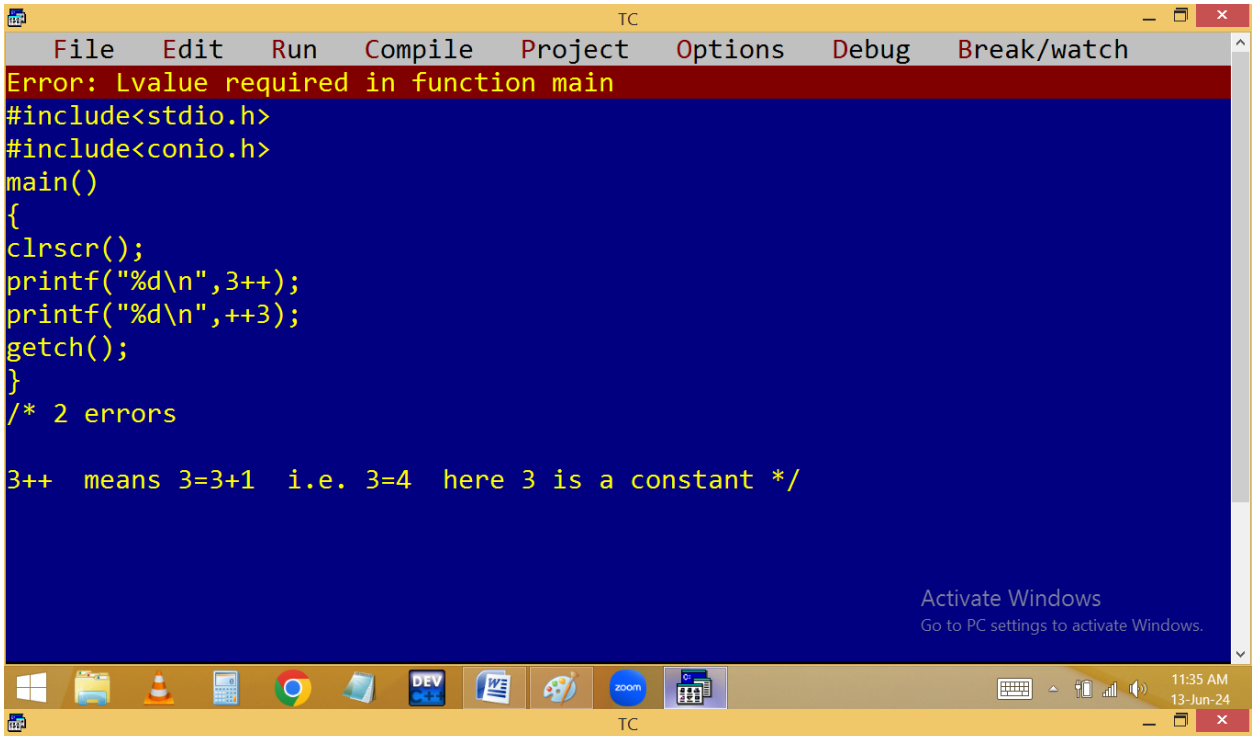
priority: ++a, /, printf

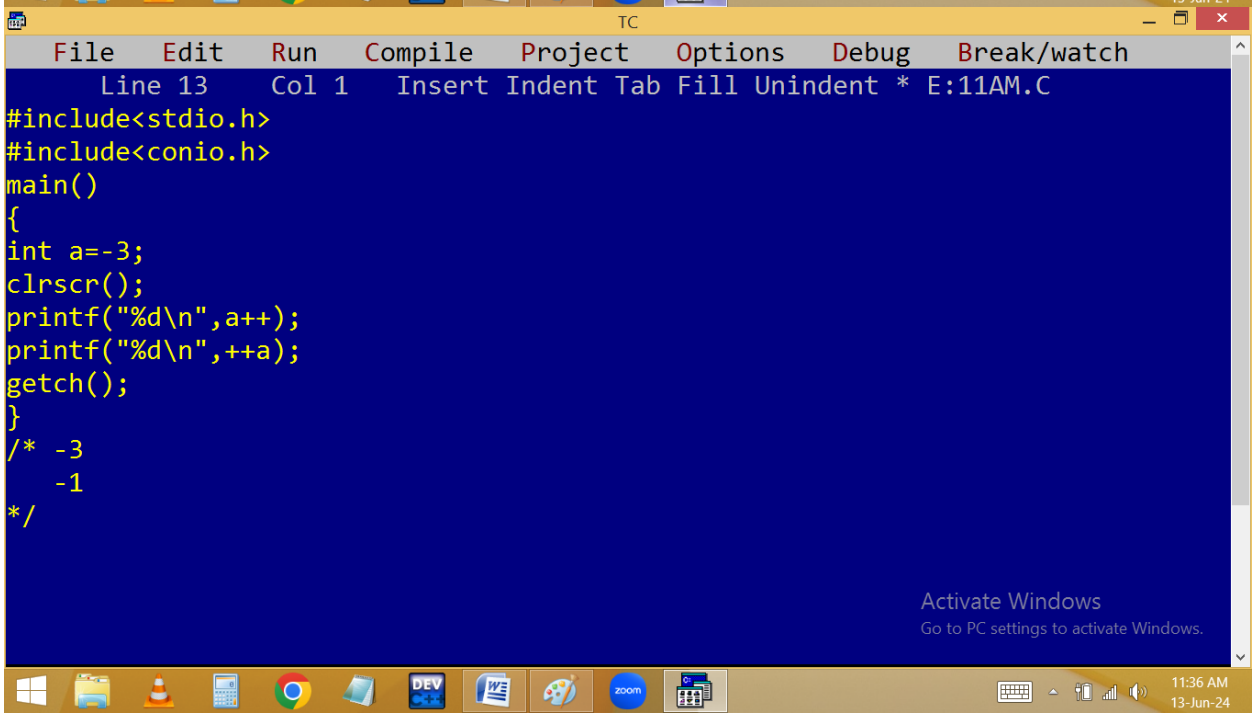
1. ++a ==> a=12

2. a/2==>12/2=6

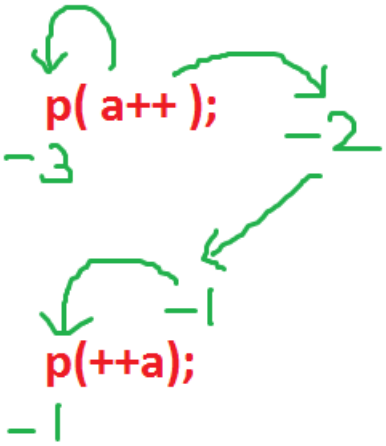
3. printf(6); [6 printed not stored i.e. a=12]

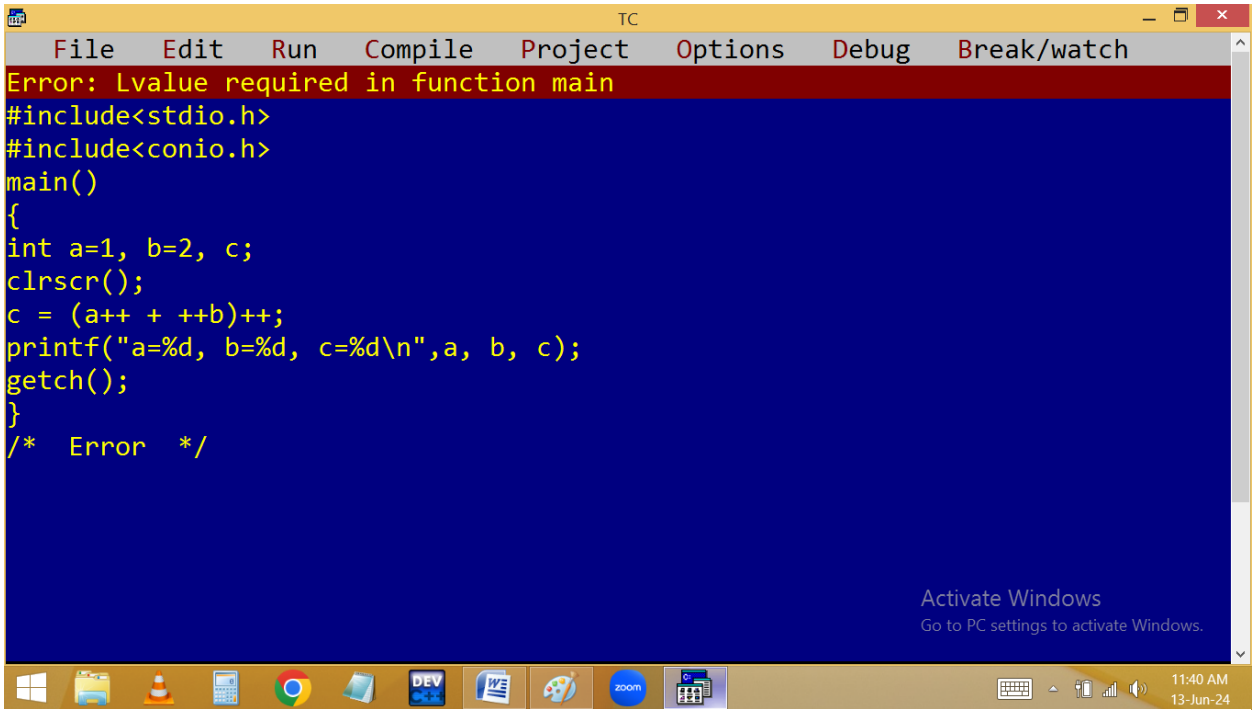
printf(a); a=12


TC
File Edit Run Compile Project Options Debug Break/watch
Error: Lvalue required in function main
#include<stdio.h>
#include<conio.h>
main()
{
clrscr();
printf("%d\n",3++);
printf("%d\n",++3);
getch();
}
/* 2 errors
3++ means 3=3+1 i.e. 3=4 here 3 is a constant */
Activate Windows
Go to PC settings to activate Windows.
11:35 AM
13-Jun-24


TC
File Edit Run Compile Project Options Debug Break/watch
Line 13 Col 1 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
int a=-3;
clrscr();
printf("%d\n",a++);
printf("%d\n",++a);
getch();
}
/* -3
-1
*/
Activate Windows
Go to PC settings to activate Windows.
11:36 AM
13-Jun-24

a= -3;





a=1, b=2

c = (a++ + ++b)++;

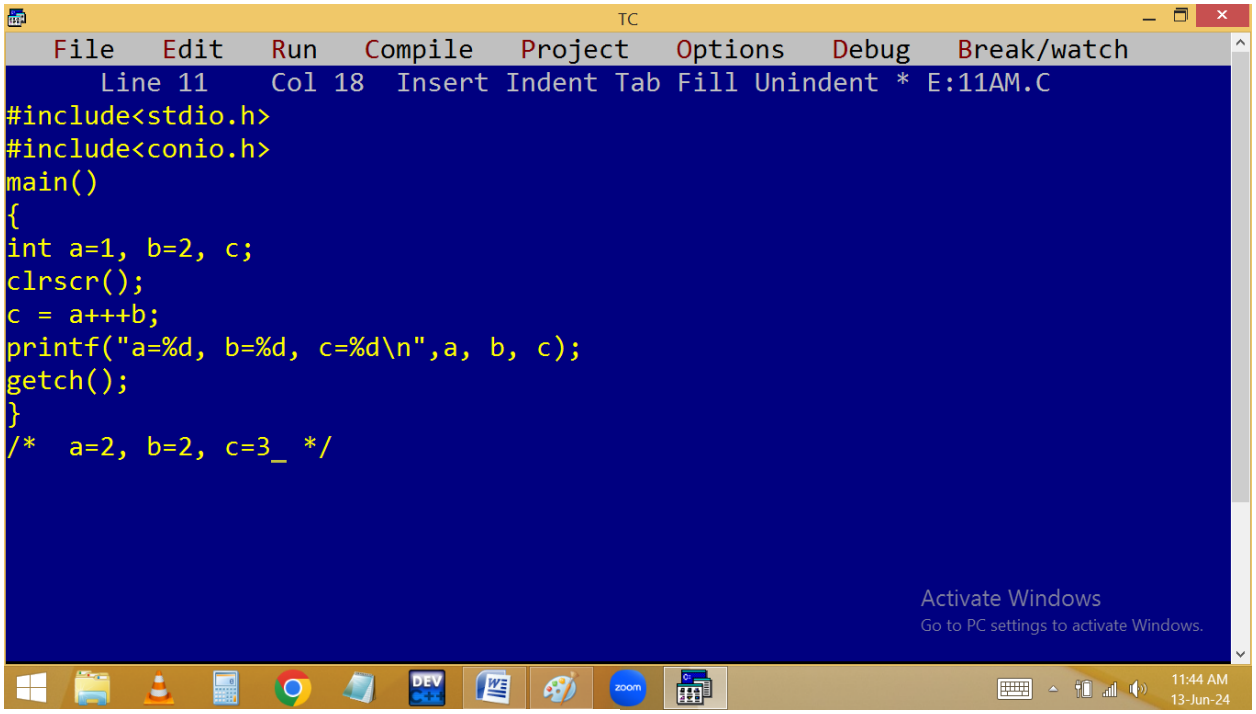
priority: ( ), ++b, +, a++

1. ++b ==> b=3

2. (a + b) ==> 1 + 3 = 4

3. (4)++ ==> 4 is a constant ==> Error

Note: We can't implement ++ / -- on expressions because of every expression return a constant value.



a=1, b=2 ✓

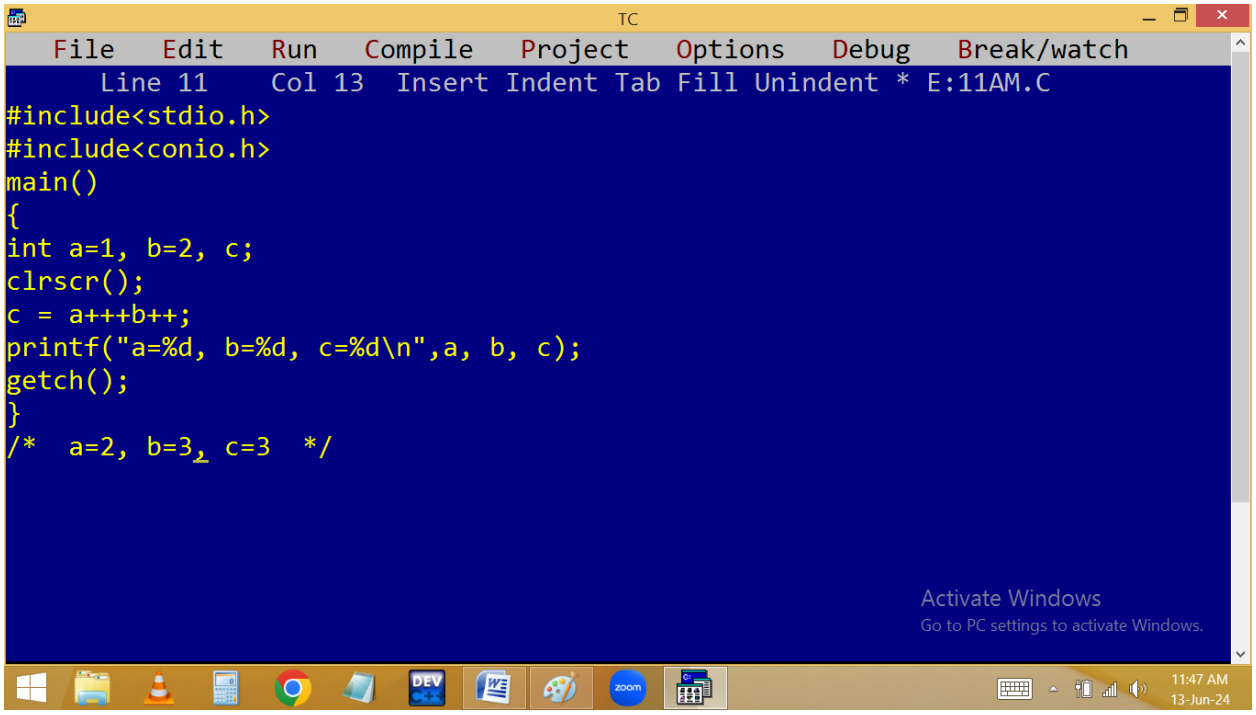
c = a++++b;

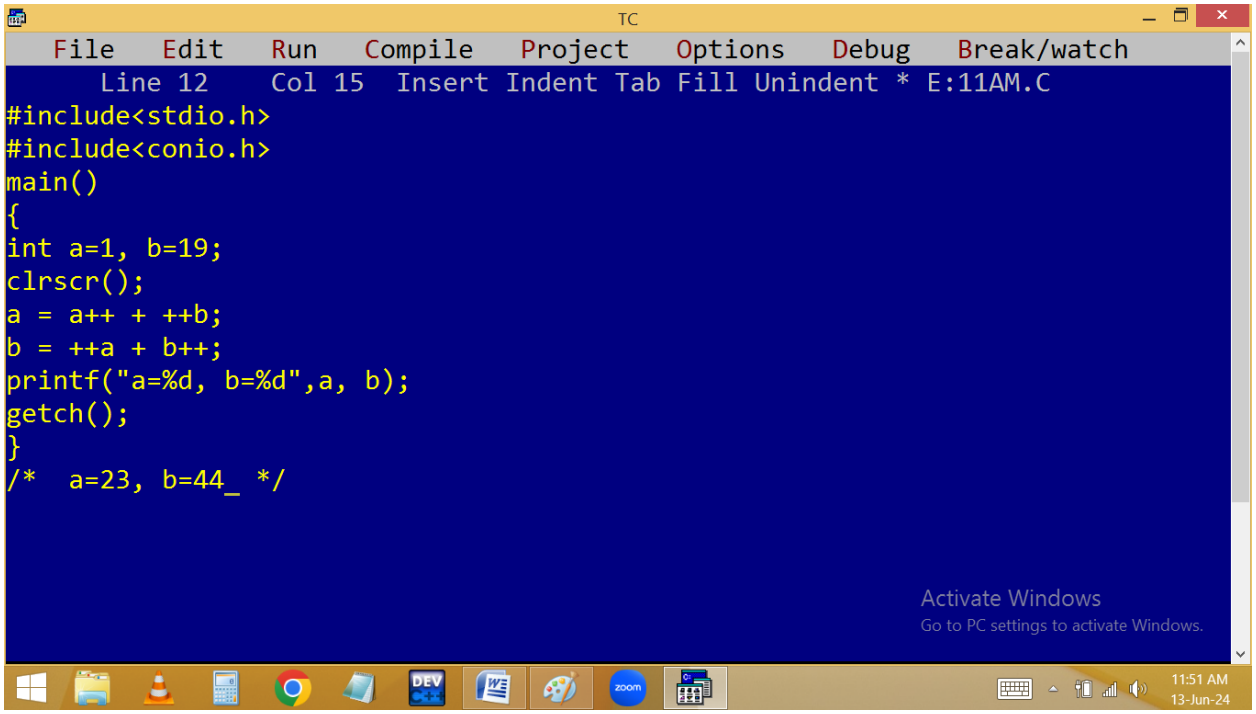
priority: +, =, a++

1. c ==> a + b ==> 1 + 2

2. c = 3

3. a++ ==> a=2


TC
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 13 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
int a=1, b=2, c;
clrscr();
c = a+++b++;
printf("a=%d, b=%d, c=%d\n",a, b, c);
getch();
}
/* a=2, b=3, c=3 */
Activate Windows
Go to PC settings to activate Windows.
11:47 AM
13-Jun-24


TC
File Edit Run Compile Project Options Debug Break/watch
Line 12 Col 15 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
int a=1, b=19;
clrscr();
a = a++ + ++b;
b = ++a + b++;
printf("a=%d, b=%d",a, b);
getch();
}
/* a=23, b=44 */
Activate Windows
Go to PC settings to activate Windows.
11:51 AM
13-Jun-24

a=1 b=19

a = a++ + ++b;

priority: ++b, +, =, a++

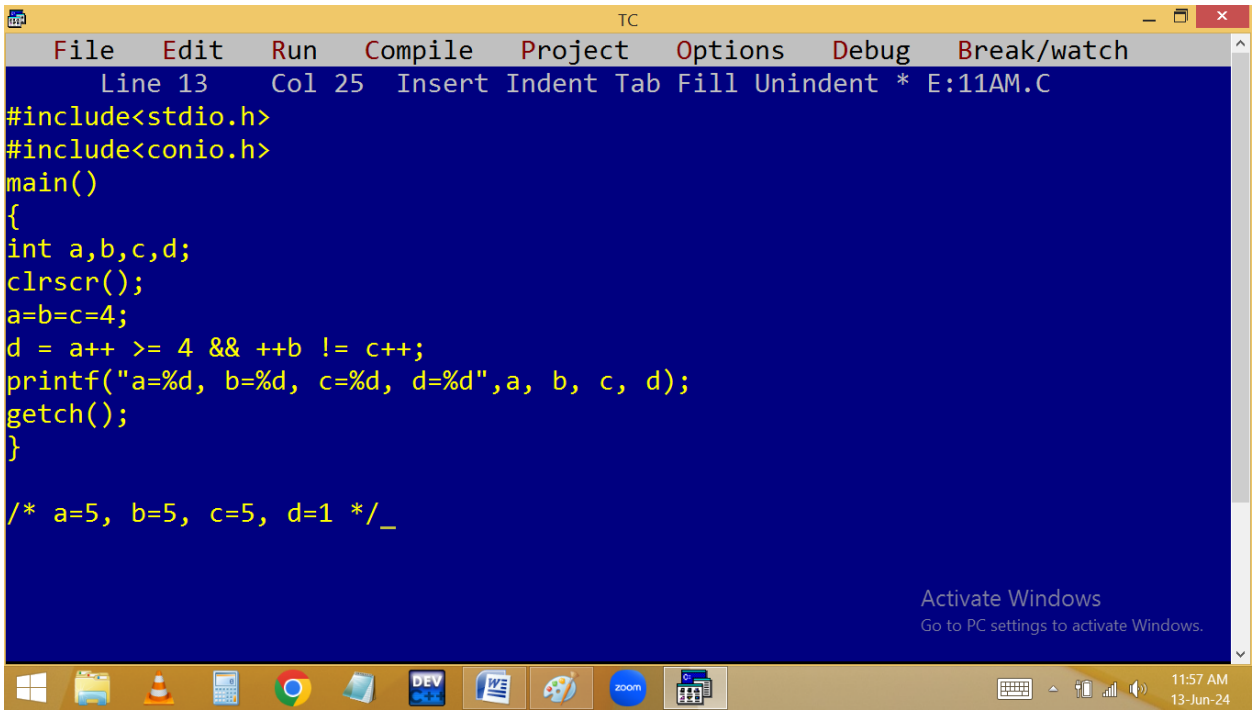
1. ++b==>b=20
2. a = a + b ==> 1 + 20
3. a=21
4. a++ ==> a=22

a=22 b=20

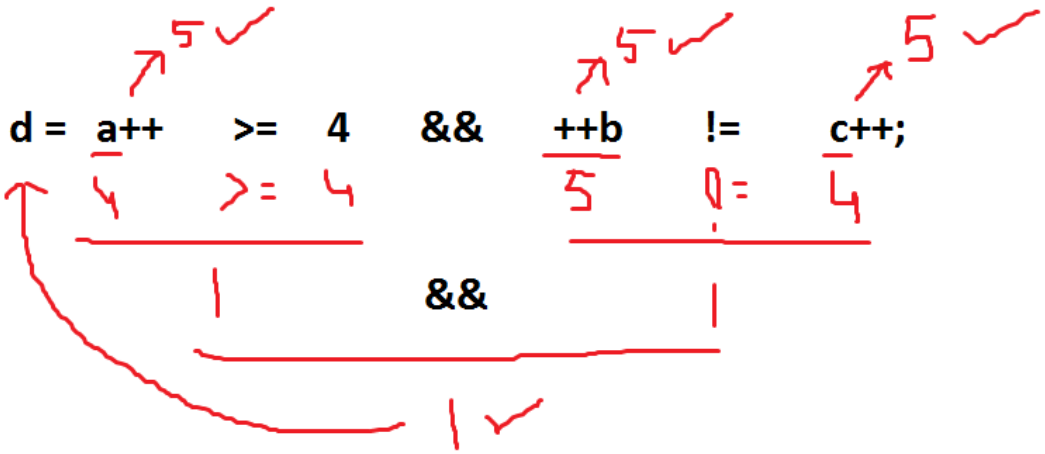
b = ++a + b++;

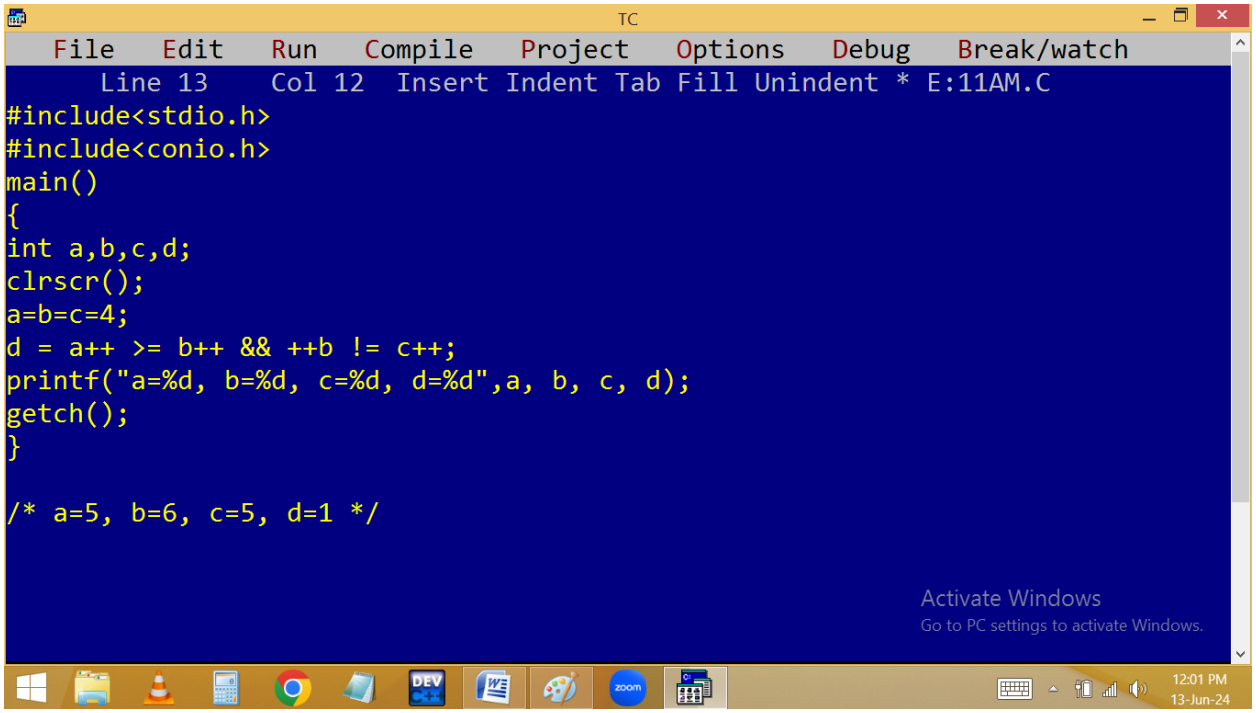
priority: ++a, +, =, b++

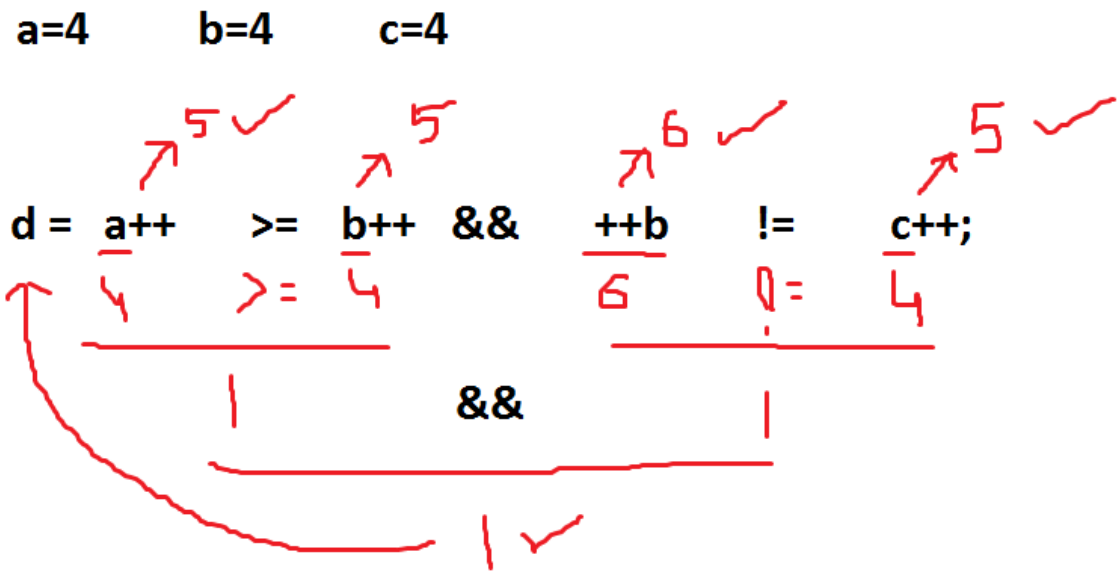
1. ++a ==> a=23 ✓
2. b = a + b ==> 23 + 20
3. b = 43
4. b++ ==> b=44 ✓

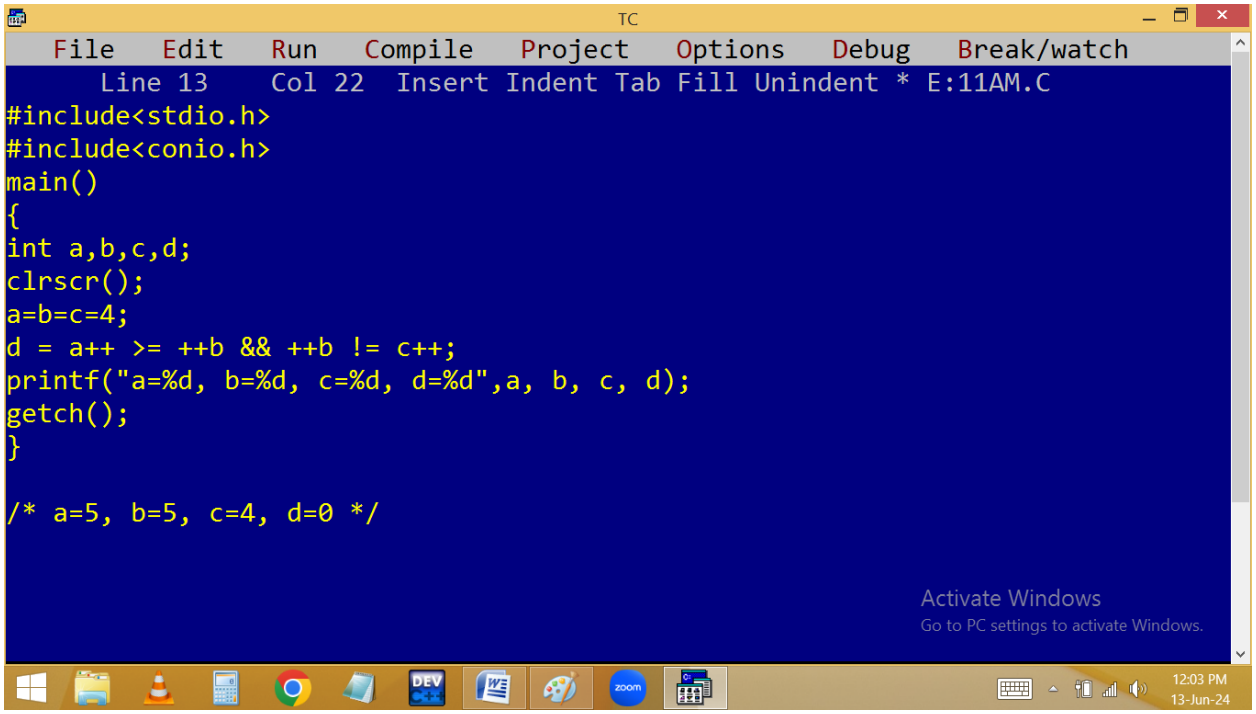


a=4 b=4 c=4




TC
File Edit Run Compile Project Options Debug Break/watch
Line 13 Col 12 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
int a,b,c,d;
clrscr();
a=b=c=4;
d = a++ >= b++ && ++b != c++;
printf("a=%d, b=%d, c=%d, d=%d",a, b, c, d);
getch();
}
/* a=5, b=6, c=5, d=1 */
Activate Windows
Go to PC settings to activate Windows.
12:01 PM
13-Jun-24


a=4 b=4 c=4
d = a++ >= b++ && ++b != c++;
4 >= 4 6 != 4
&&



a=4 b=4 c=4 ✓

5 ✓ 5

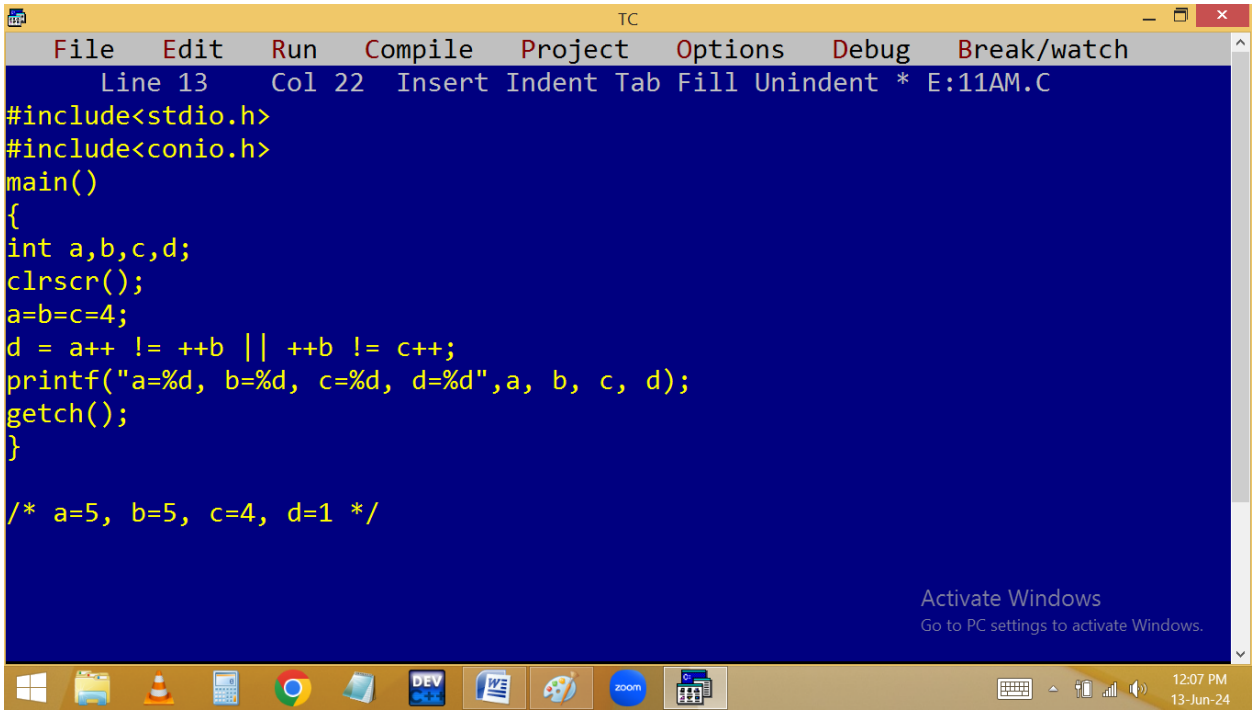
d = a++ >= ++b && ++b != c++;

4 >= 5

0

Not checked

Note: In && operation when left exp false then right exp not checked.



a=4 b=4 c=4

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

4 != 5

Not checked

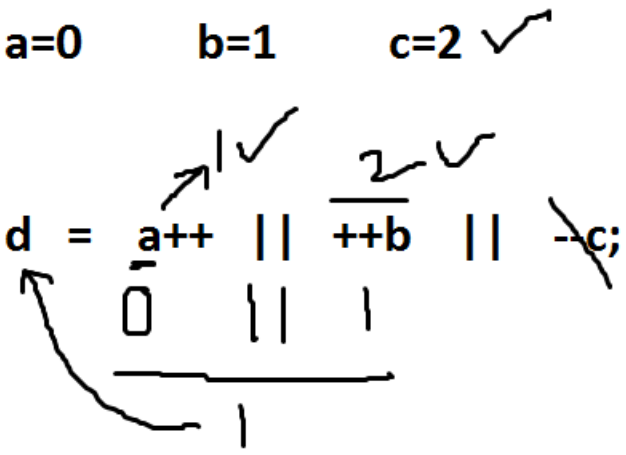
Note: In || operation when left exp true then right exp not checked.

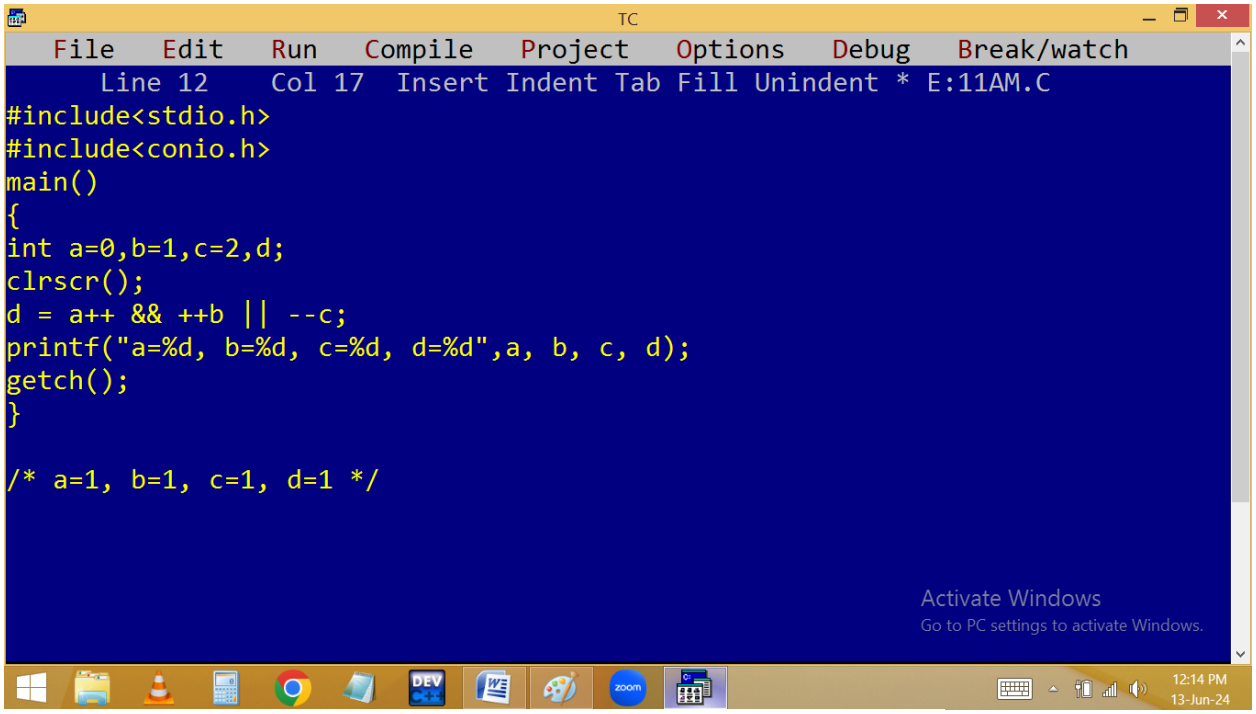
TC

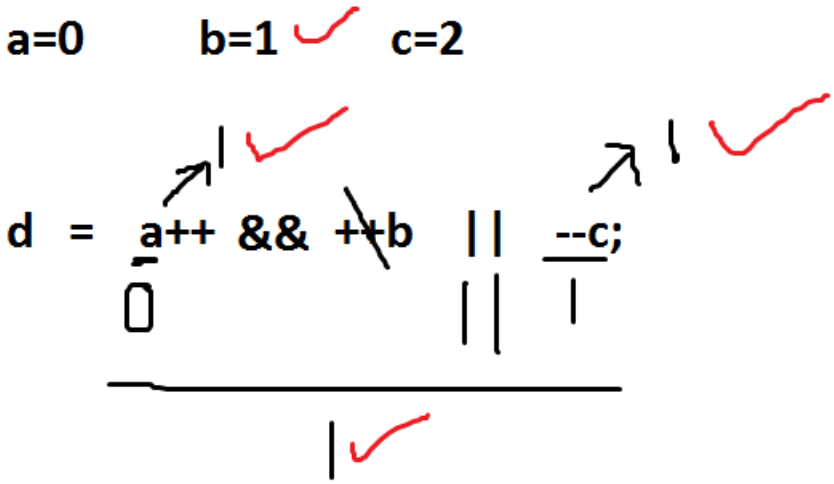
File Edit Run Compile Project Options Debug Break/watch

Line 12 Col 19 Insert Indent Tab Fill Unindent * E:11AM.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=2, d=1 */
```


TC
File Edit Run Compile Project Options Debug Break/watch
Line 12 Col 17 Insert Indent Tab Fill Unindent * E:11AM.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=1, c=1, d=1 */
Activate Windows
Go to PC settings to activate Windows.
12:14 PM
13-Jun-24

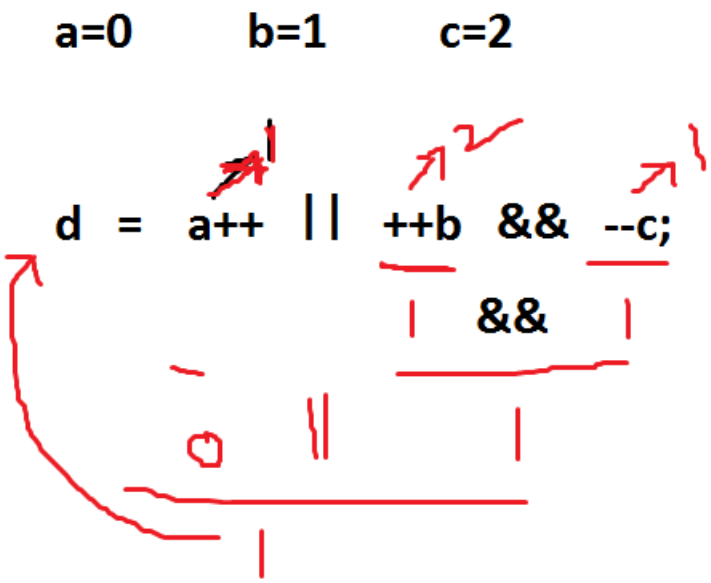

a=0
b=1
c=2
d = a++ && ++b || --c;

TC

File Edit Run Compile Project Options Debug Break/watch

Line 12 Col 12 Insert Indent Tab Fill Unindent * E:11AM.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 */
```

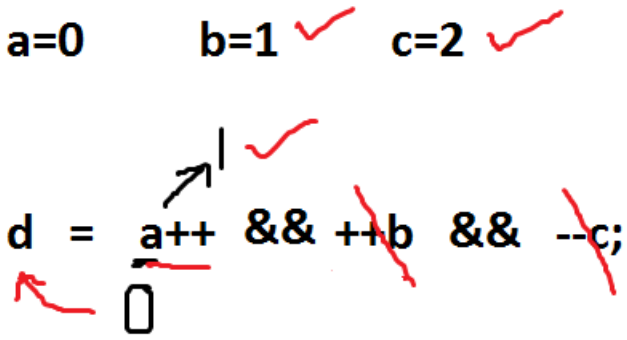



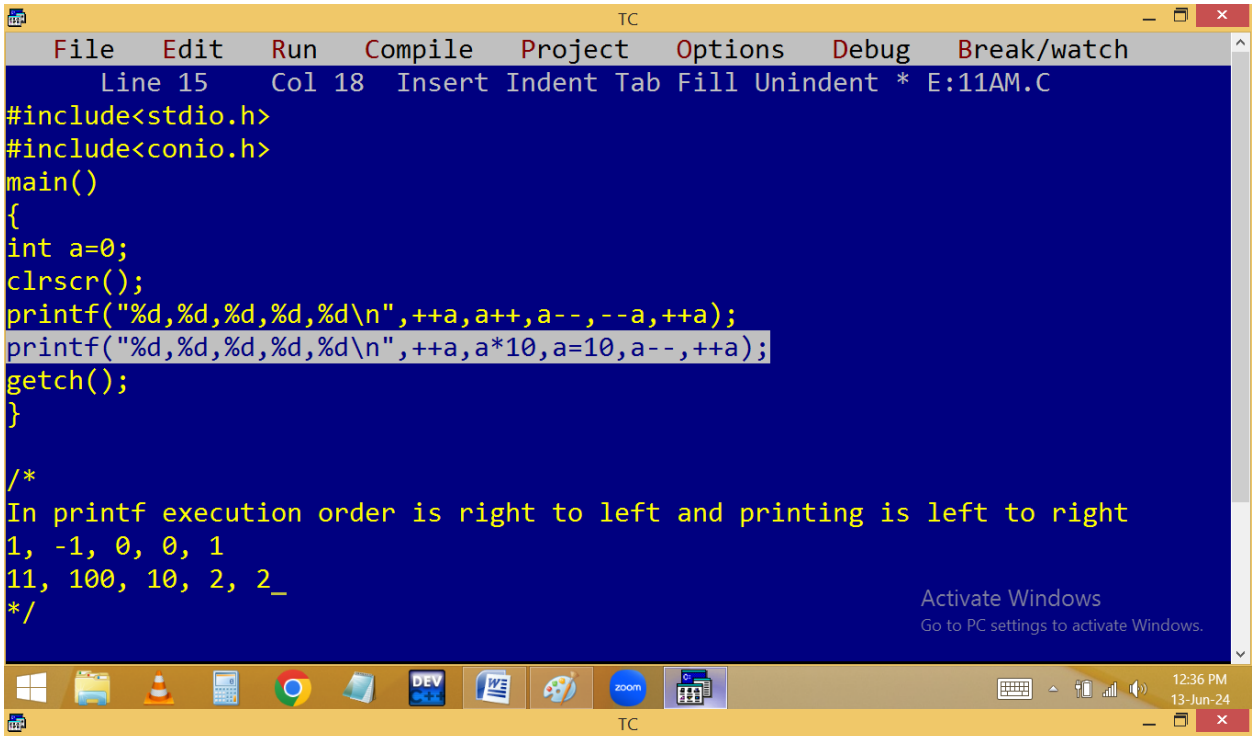
TC

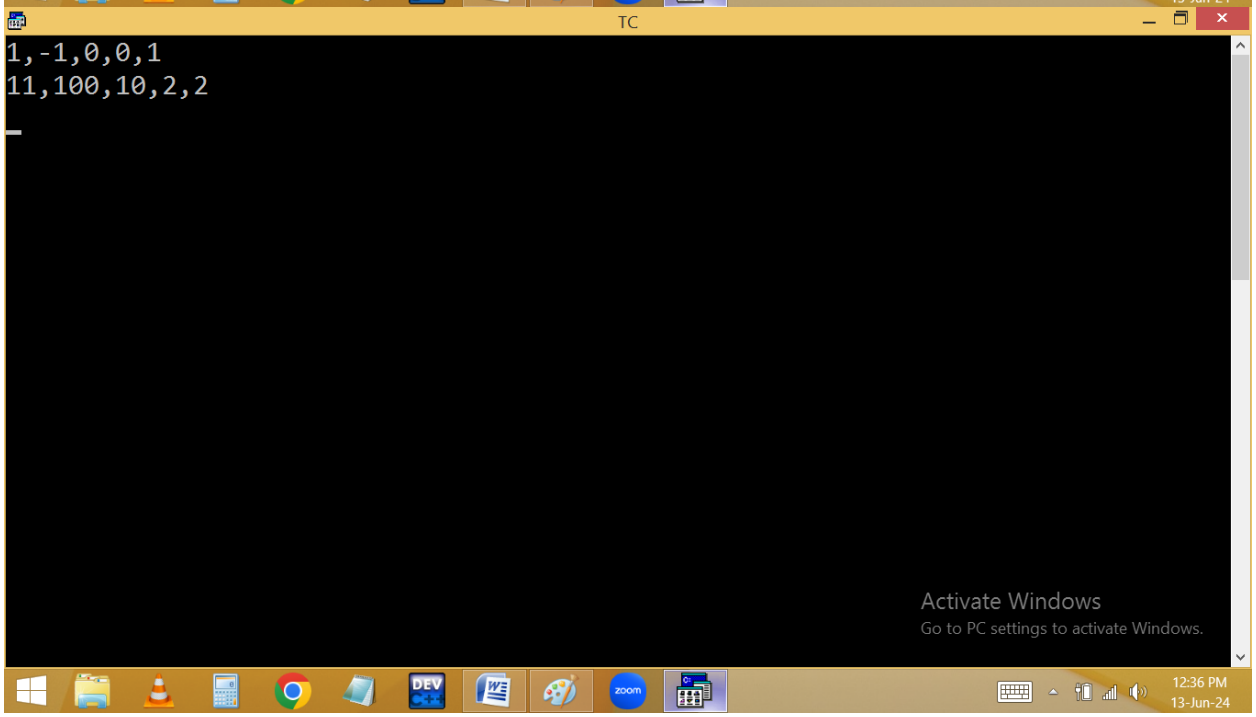
File Edit Run Compile Project Options Debug Break/watch

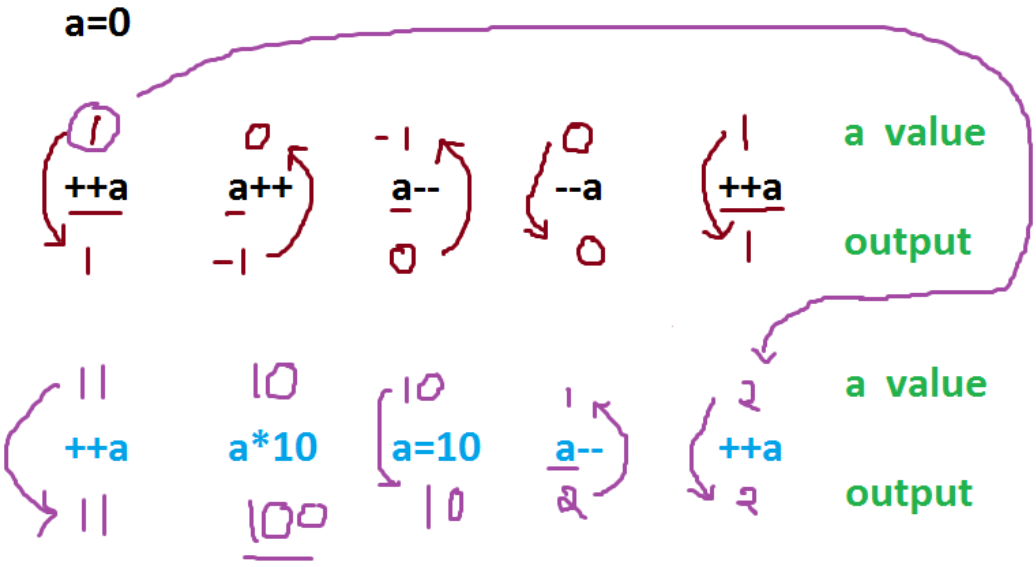
Line 12 Col 22 Insert Indent Tab Fill Unindent * E:11AM.C

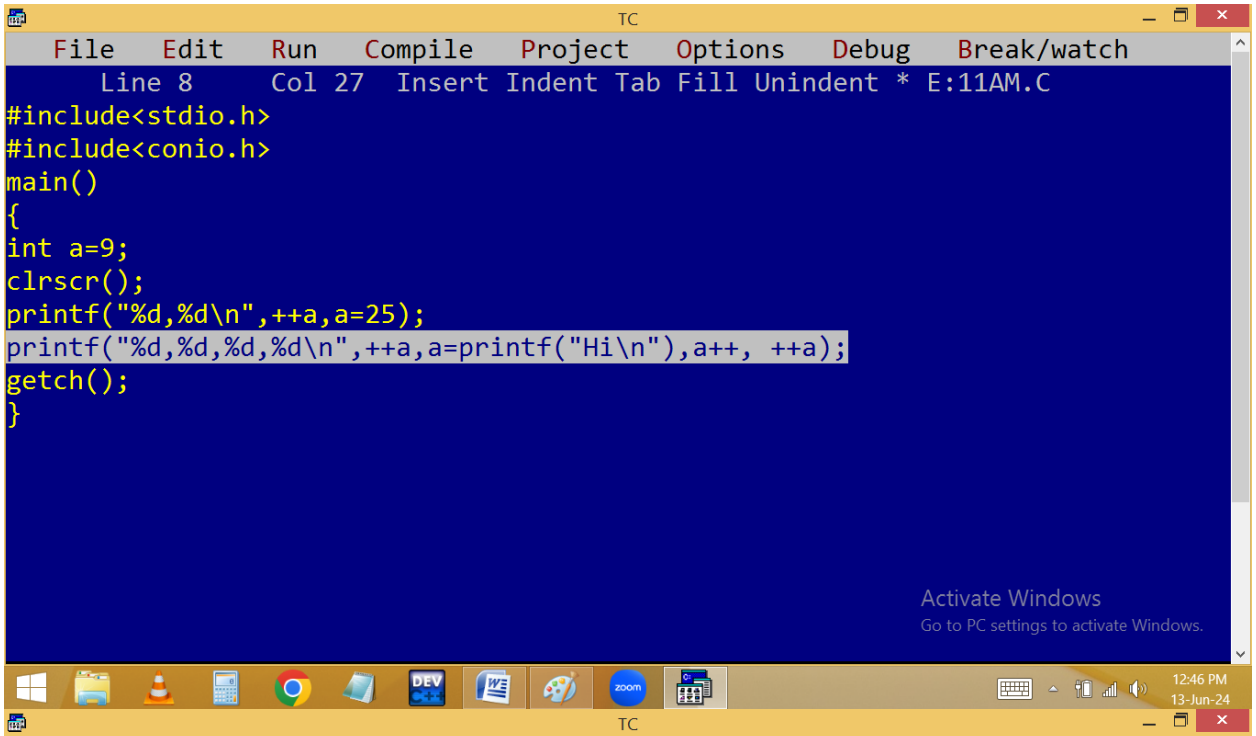
```
#include<stdio.h>
#include<conio.h>
main()
{
int a=0,b=1,c=2,d;
clrscr();
d = a++ && ++b && --c;
printf("a=%d, b=%d, c=%d, d=%d",a, b, c, d);
getch();
}

/* a=1, b=1, c=2, d=0_*/
```

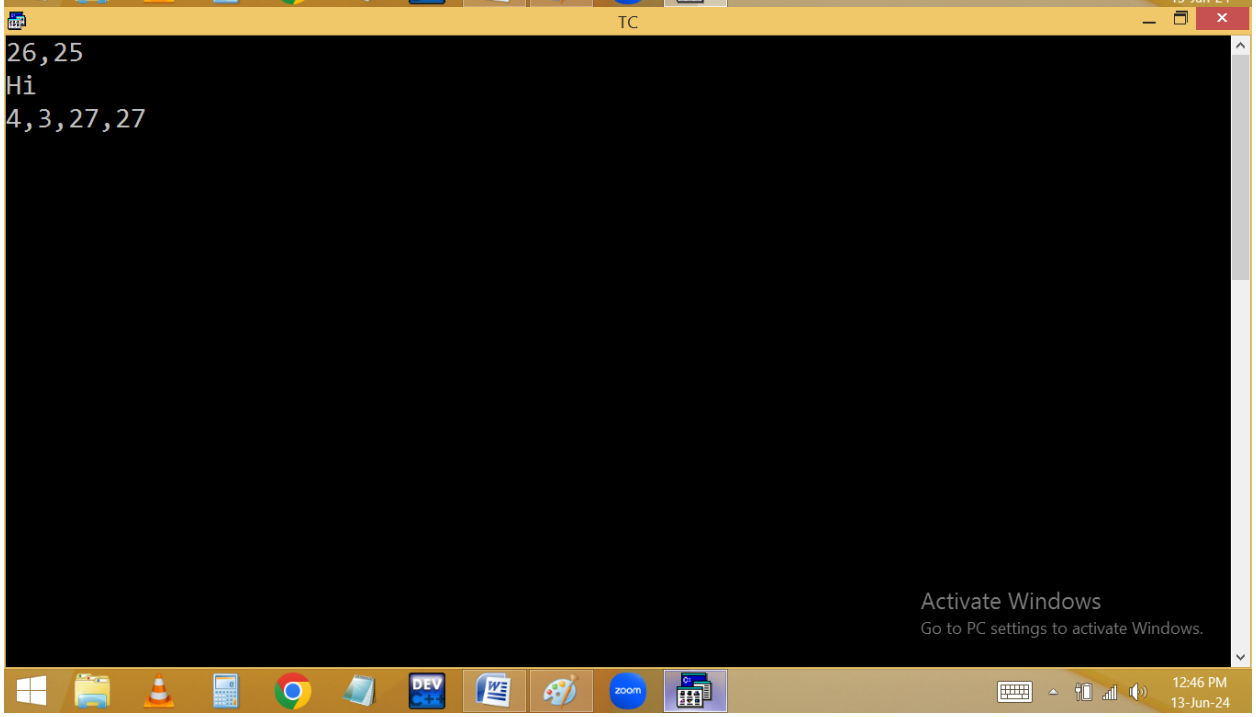




TC
File Edit Run Compile Project Options Debug Break/watch
Line 15 Col 18 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
int a=0;
clrscr();
printf("%d,%d,%d,%d,%d\n",++a,a++,a--,--a,++a);
printf("%d,%d,%d,%d,%d\n",++a,a*10,a=10,a--,++a);
getch();
}
/*
In printf execution order is right to left and printing is left to right
1, -1, 0, 0, 1
11, 100, 10, 2, 2_
*/
Activate Windows
Go to PC settings to activate Windows.
12:36 PM
13-Jun-24


TC
1,-1,0,0,1
11,100,10,2,2
Activate Windows
Go to PC settings to activate Windows.
12:36 PM
13-Jun-24


a=0
++a
a++
a--
--a
++a
a value
output
++a
a*10
a=10
a--
++a
a value
output


TC
File Edit Run Compile Project Options Debug Break/watch
Line 8 Col 27 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
int a=9;
clrscr();
printf("%d,%d\n",++a,a=25);
printf("%d,%d,%d,%d\n",++a,a=printf("Hi\n"),a++, ++a);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
12:46 PM
13-Jun-24


TC
26,25
Hi
4,3,27,27
Activate Windows
Go to PC settings to activate Windows.
12:46 PM
13-Jun-24