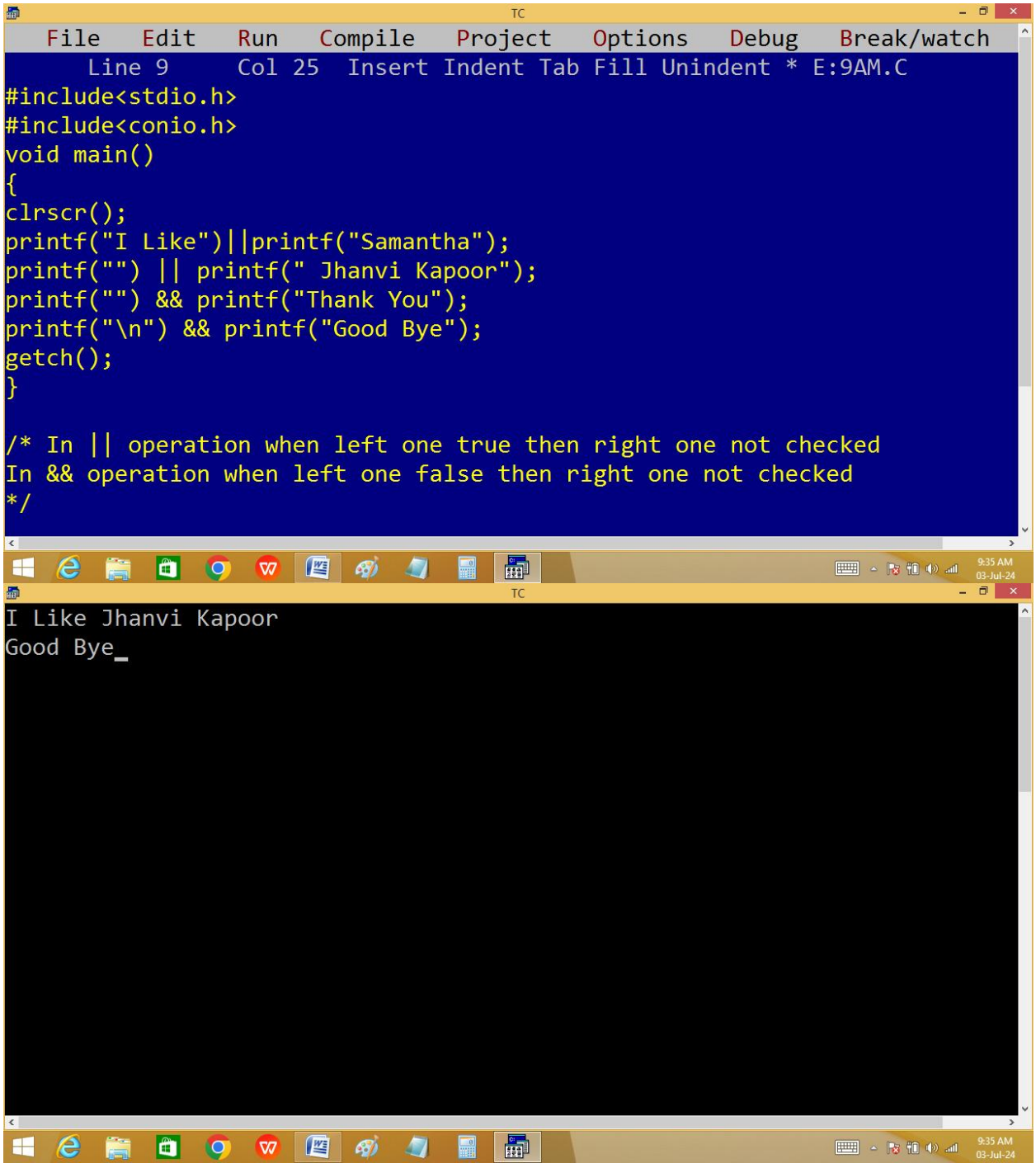
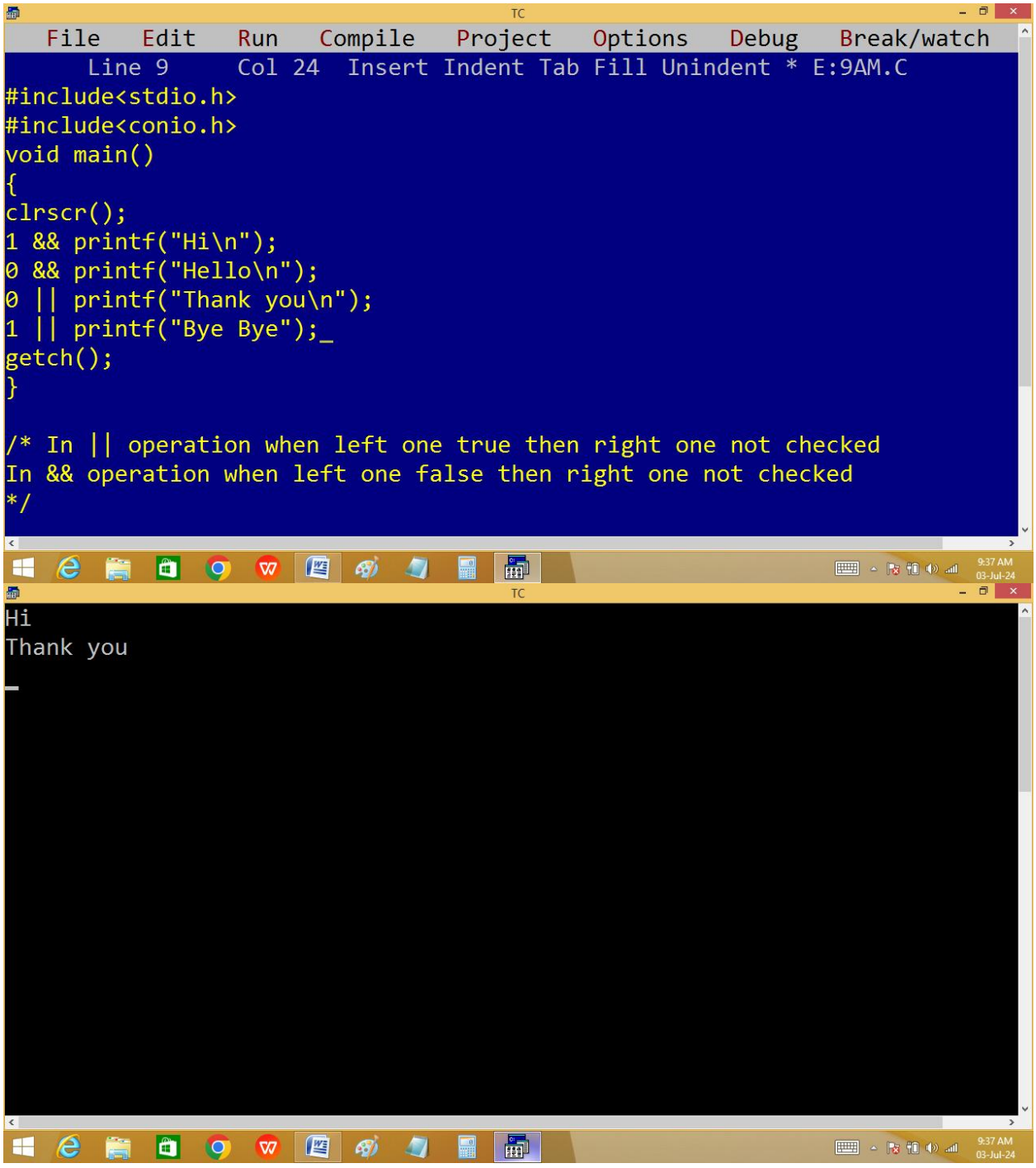

TC
File Edit Run Compile Project Options Debug Break/watch
Line 9 Col 25 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("I Like")||printf("Samantha");
printf("") || printf(" Jhanvi Kapoor");
printf("") && printf("Thank You");
printf("\n") && printf("Good Bye");
getch();
}
/* In || operation when left one true then right one not checked
In && operation when left one false then right one not checked
*/
9:35 AM
03-Jul-24
TC
I Like Jhanvi Kapoor
Good Bye
9:35 AM
03-Jul-24


TC
File Edit Run Compile Project Options Debug Break/watch
Line 9 Col 24 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
1 && printf("Hi\n");
0 && printf("Hello\n");
0 || printf("Thank you\n");
1 || printf("Bye Bye");
getch();
}
/* In || operation when left one true then right one not checked
In && operation when left one false then right one not checked
*/
9:37 AM
03-Jul-24
TC
Hi
Thank you
9:37 AM
03-Jul-24

Increment / Decrement/modify Operators [++ / --]:

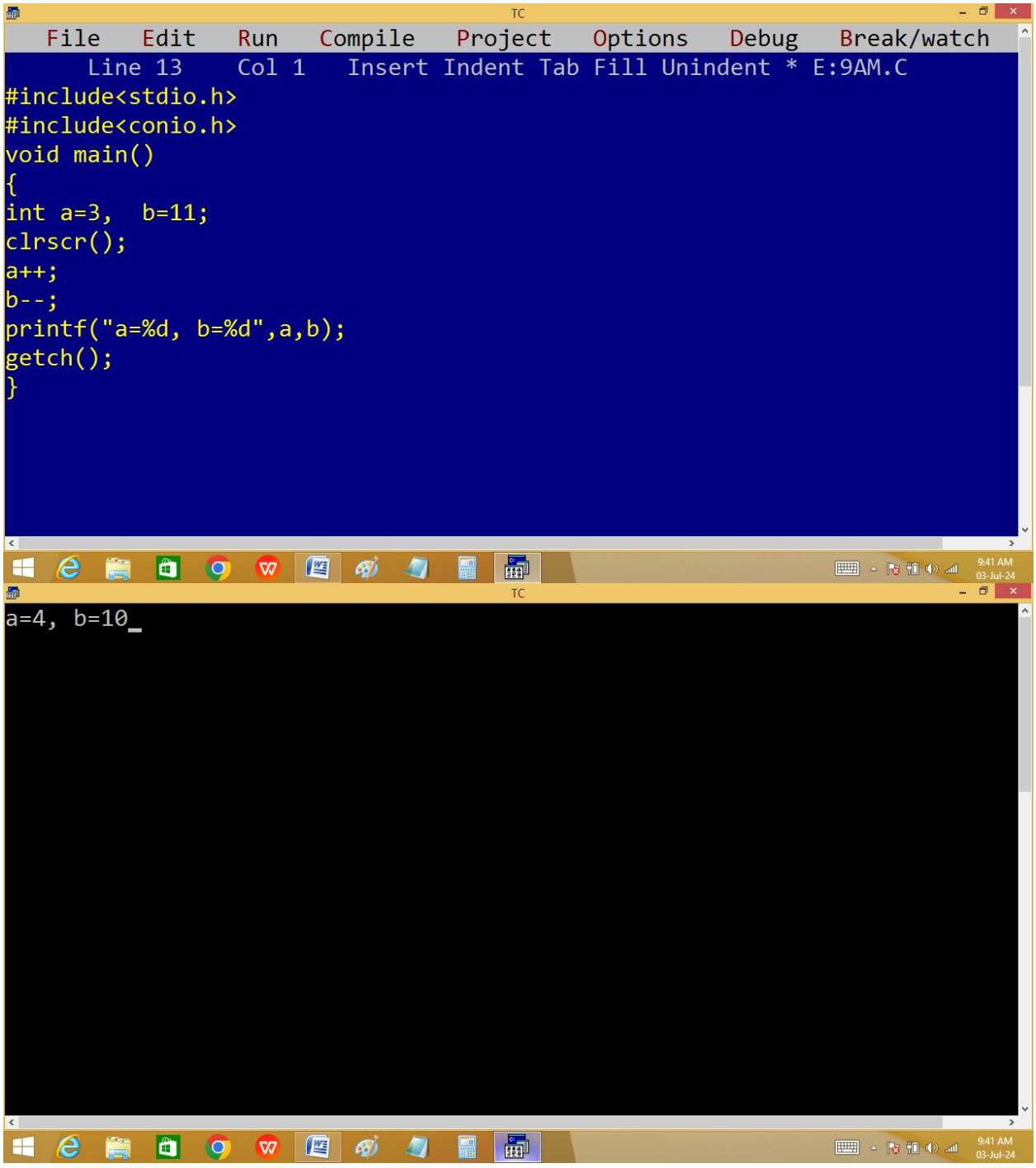
They are used to increment / decrement a variable value by 1.

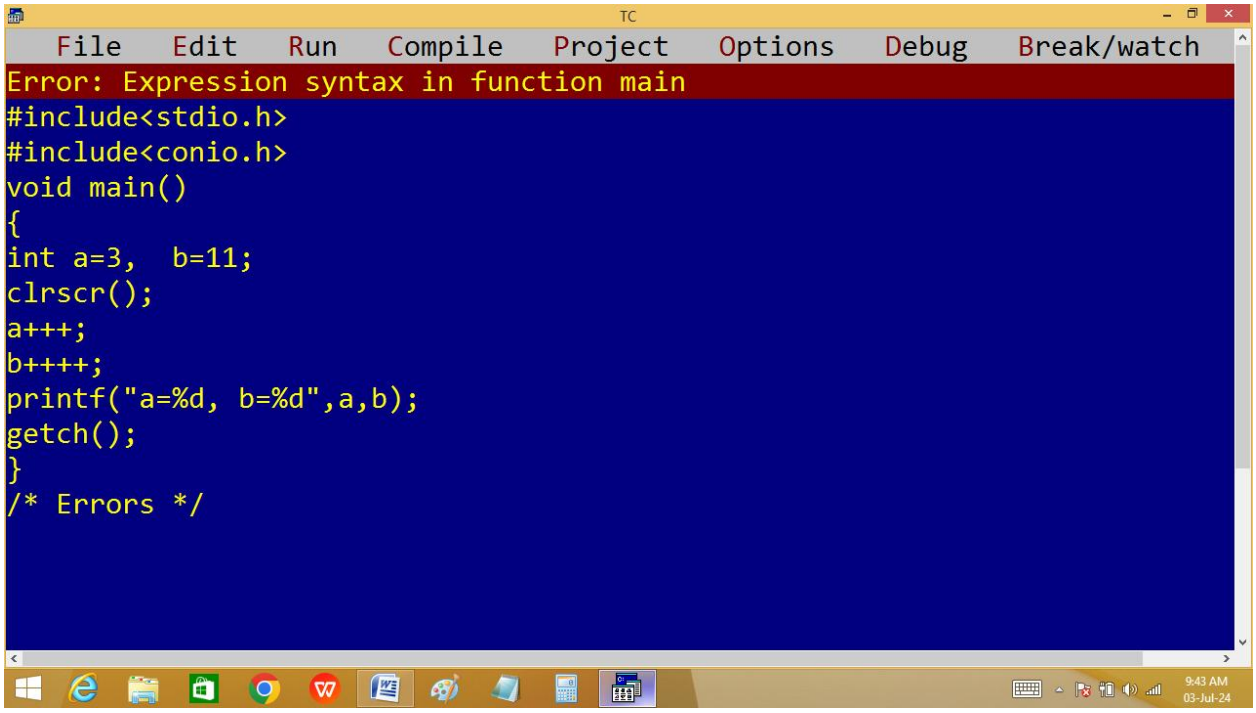
Eg:

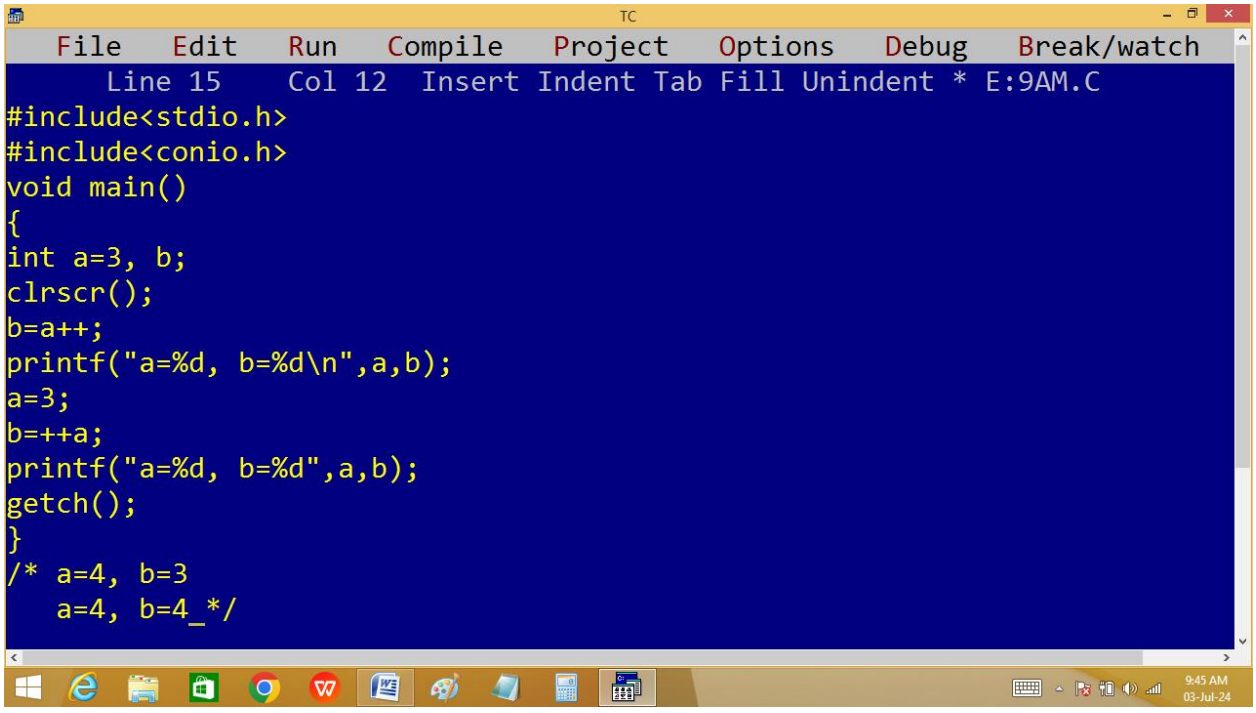
Int a =3, b=11;

a++; ➔ i.e. a=a+1 ➔ a=4

b--; ➔ i.e. b=b-1 ➔ b=10


TC
File Edit Run Compile Project Options Debug Break/watch
Line 13 Col 1 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a=3, b=11;
clrscr();
a++;
b--;
printf("a=%d, b=%d",a,b);
getch();
}
TC
a=4, b=10
9:41 AM
03-Jul-24


TC
File Edit Run Compile Project Options Debug Break/watch
Error: Expression syntax in function main
#include<stdio.h>
#include<conio.h>
void main()
{
int a=3, b=11;
clrscr();
a+++;
b++++;
printf("a=%d, b=%d",a,b);
getch();
}
/* Errors */


TC
File Edit Run Compile Project Options Debug Break/watch
Line 15 Col 12 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a=3, b;
clrscr();
b=a++;
printf("a=%d, b=%d\n",a,b);
a=3;
b=++a;
printf("a=%d, b=%d",a,b);
getch();
}
/* a=4, b=3
a=4, b=4 */

postfix increment:

a=3

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

1. b=a ==> b=3

2. a++ ==> a=4

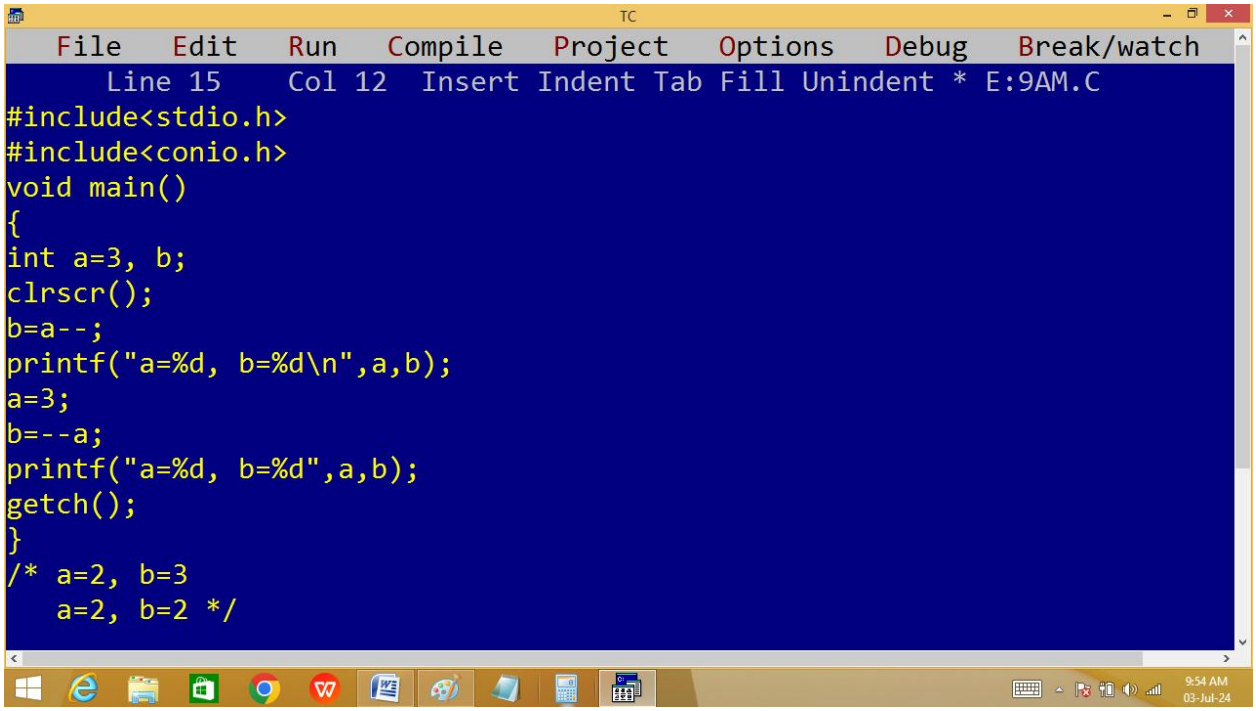
prefix increment:

a=3

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

1. ++a==> a=4

2. b=a ==> b=4



a=3

b=a--; priority: =, a--

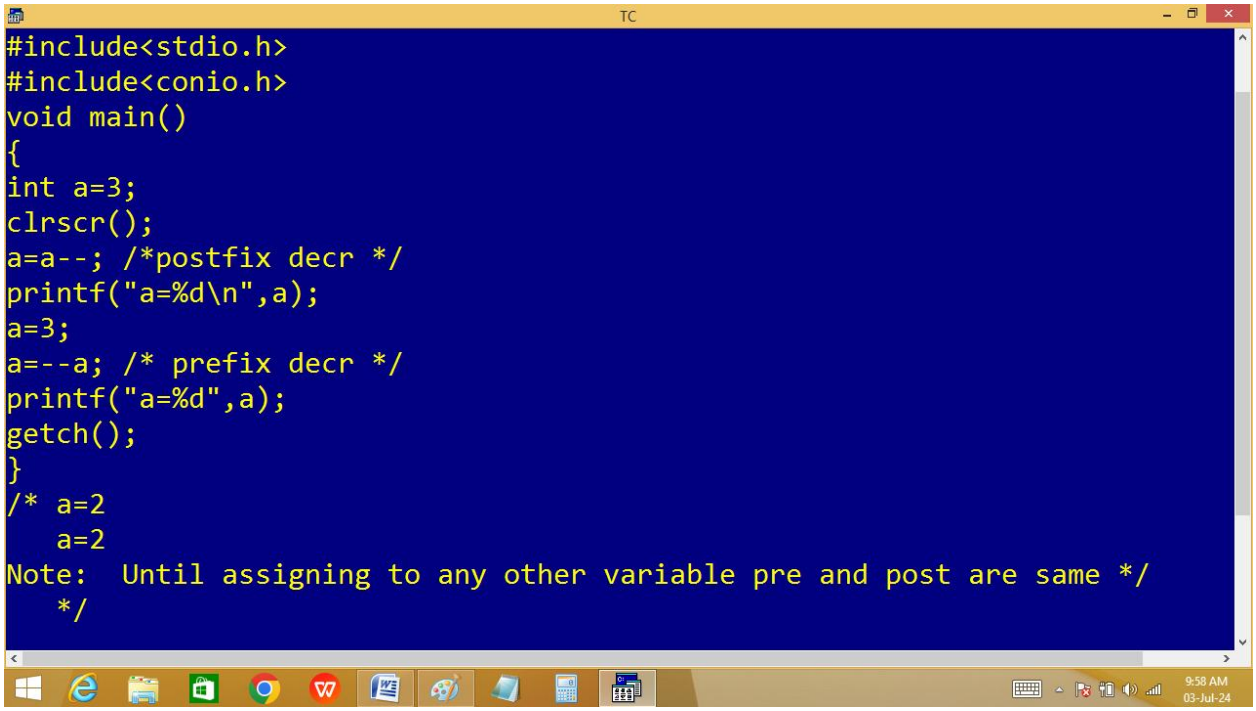
1. b=a==>b=3
2. a-- ==> a=2

a=3

b=--a; priority: --a, =

1. --a ==> a=2
2. b=a==>b=2

Note: Always pre is first and post is last



a=3

a=a--; priority: =, a--

1. a=a ==> a=3

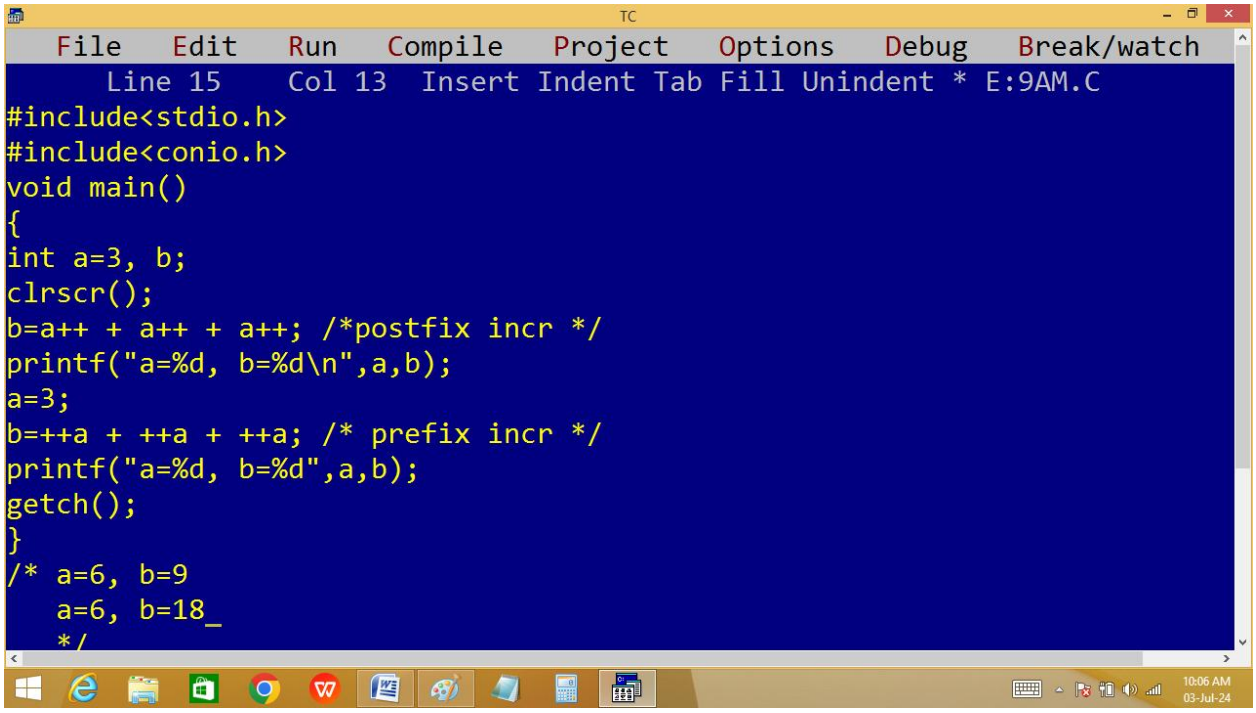
2. a-- ==> a=2

a=3

a=--a; priority: --a, =

1. --a ==> a=2

2. a=a==> a=2



a=3

b= a++ + a++ + a++;

priority: +, =, a++

1. b = a + a + a ==> 3 + 3 + 3

2. b = 9

3. a++ ==> a=4, a++ ==> a=5, a++ ==> a=6

a=3

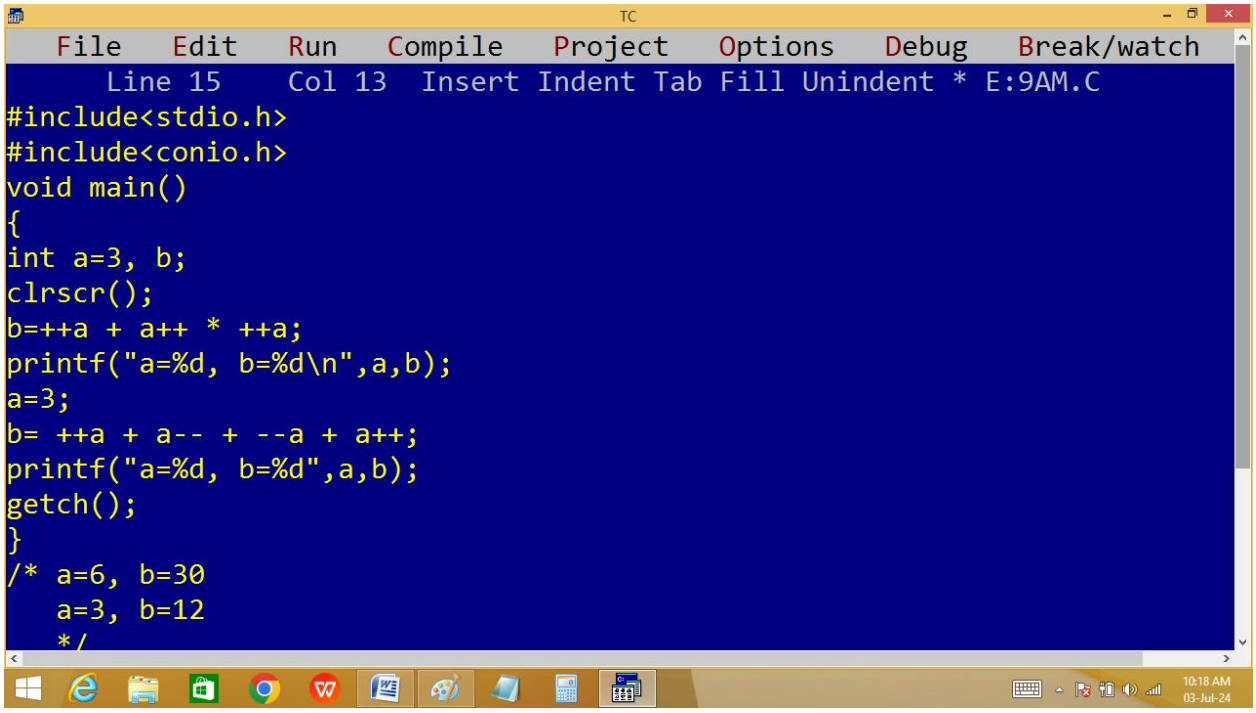
b=++a + ++a + ++a;

priority: ++a, +, =

1.++a==>a=4, ++a==>a=5, ++a==>a=6

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

3. b = 18



a=3

b= ++a + a++ * ++a;

priority: ++a, *, +, =, a++

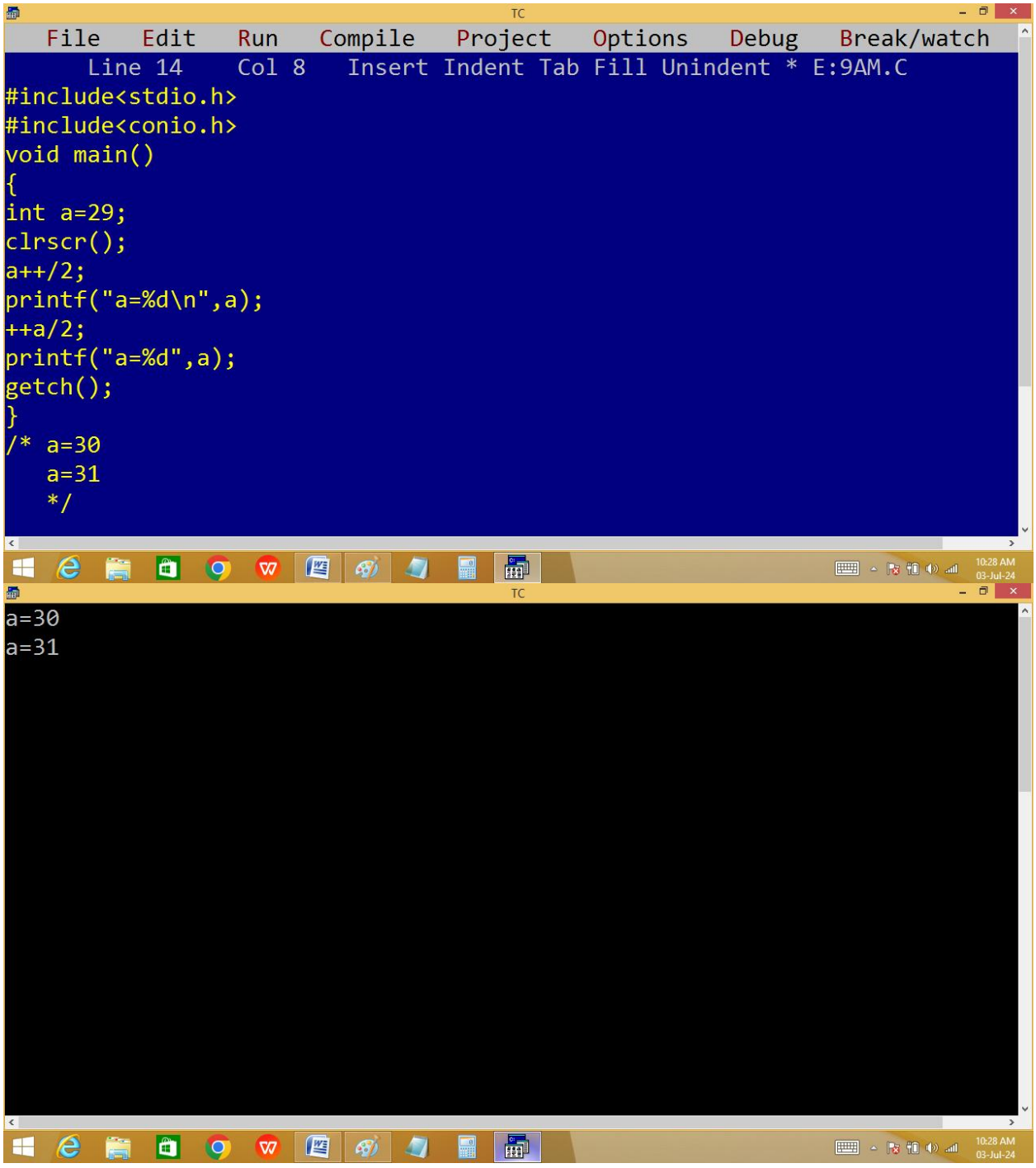
1. ++a==>a=4, ++a==>a=5
2. b = a + a * a; ==> 5 + 5*5
3. b = 5 + 25
4. b = 30
5. a++ ==> a=6

a=3

b= ++a + a-- + --a + a++;

priority: ++a,--a,+,=,a++,a--

1. ++a==>a=4
2. --a==>a=3
3. b= a+a+a+a==>3+3+3+3
4. b=12
5. a++==>a=4
6. a--==>a=3


TC
File Edit Run Compile Project Options Debug Break/watch
Line 14 Col 8 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a=29;
clrscr();
a++/2;
printf("a=%d\n",a);
++a/2;
printf("a=%d",a);
getch();
}
/* a=30
a=31
*/
TC
a=30
a=31

a=29

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

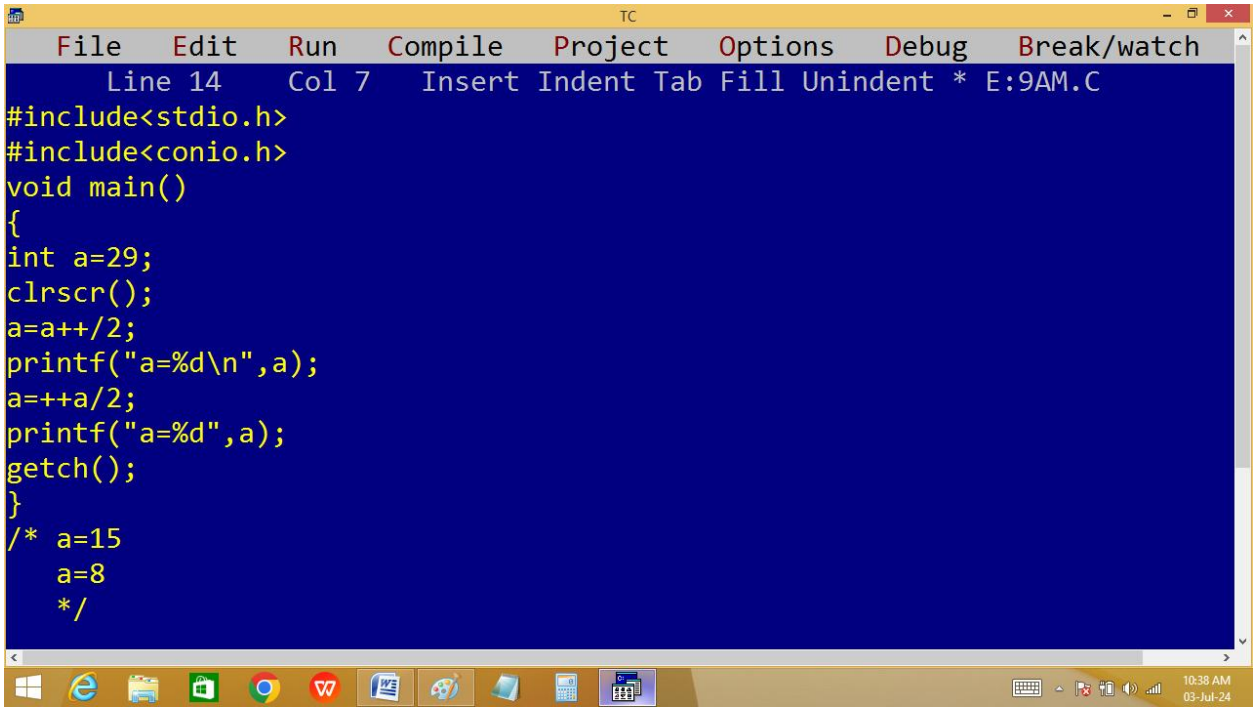
1. a/2==>29/2=14 [14 not stored because of = op not used i.e. a=29]

2. a++ ==> a=30

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

1. ++a==> a=31

2. a/2= 31/2=15 [15 not stored because of = op not used i.e. a=31]



a=29

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

1. a=a/2==>29/2=14

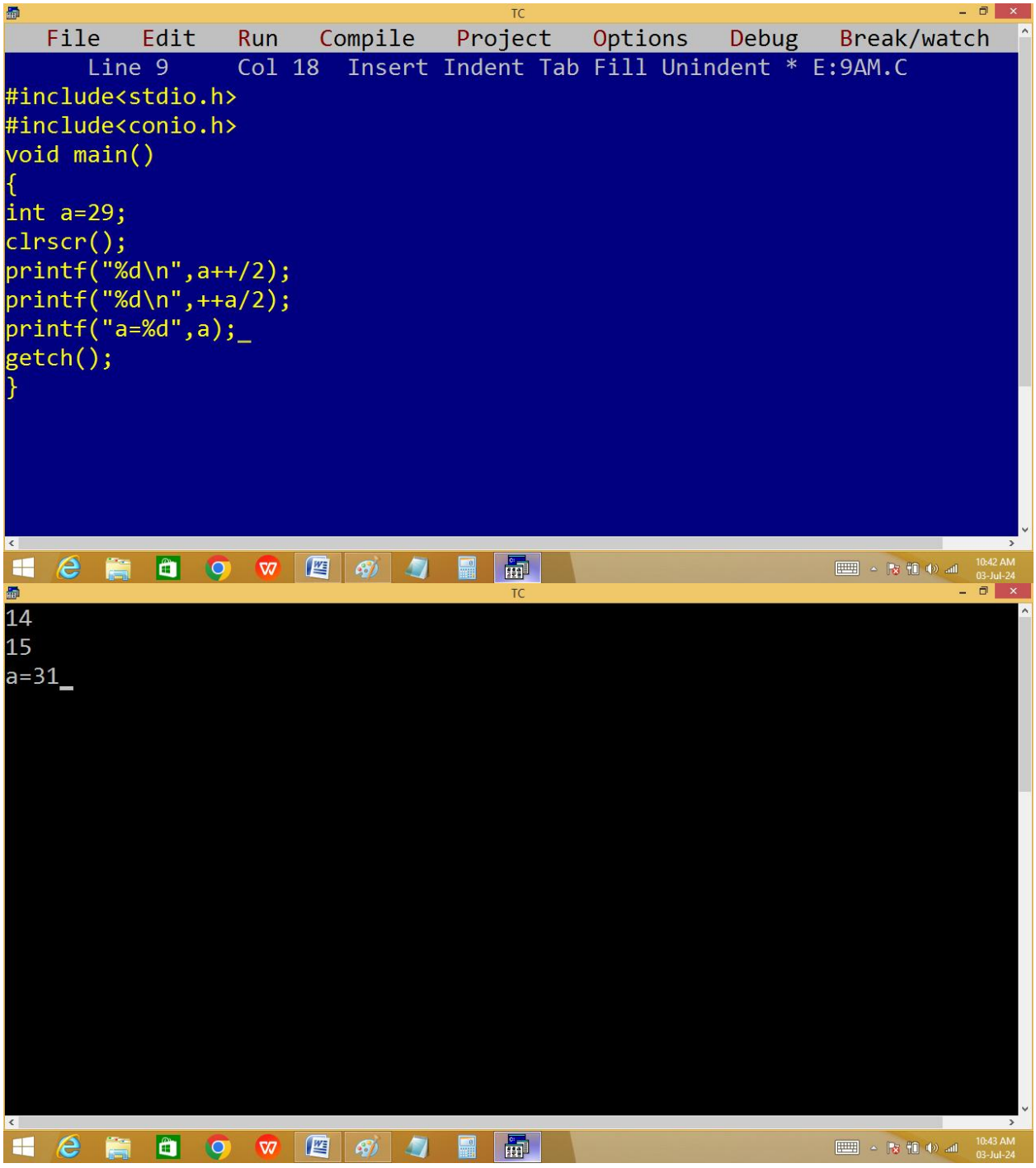
2. a=14

3. a++ ==>a=15

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

1. ++a==>16

2. a=a/2==> 16/2==> a=8


TC
File Edit Run Compile Project Options Debug Break/watch
Line 9 Col 18 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a=29;
clrscr();
printf("%d\n",a++/2);
printf("%d\n",++a/2);
printf("a=%d",a);
getch();
}
10:42 AM
03-Jul-24
TC
14
15
a=31
10:43 AM
03-Jul-24

a=29

printf("%d", a++/2);

priority: /, a++

1. a/2==>29/2=14 <== print [14 only printed not stored i.e. a=29]

2. a++ ==> a=30

printf("%d", ++a/2);

priority: ++a,/

++a==> a=31

printf(31/2)==> 15 [15 printed not stored i.e. a=31]

printf(a) ==> 31