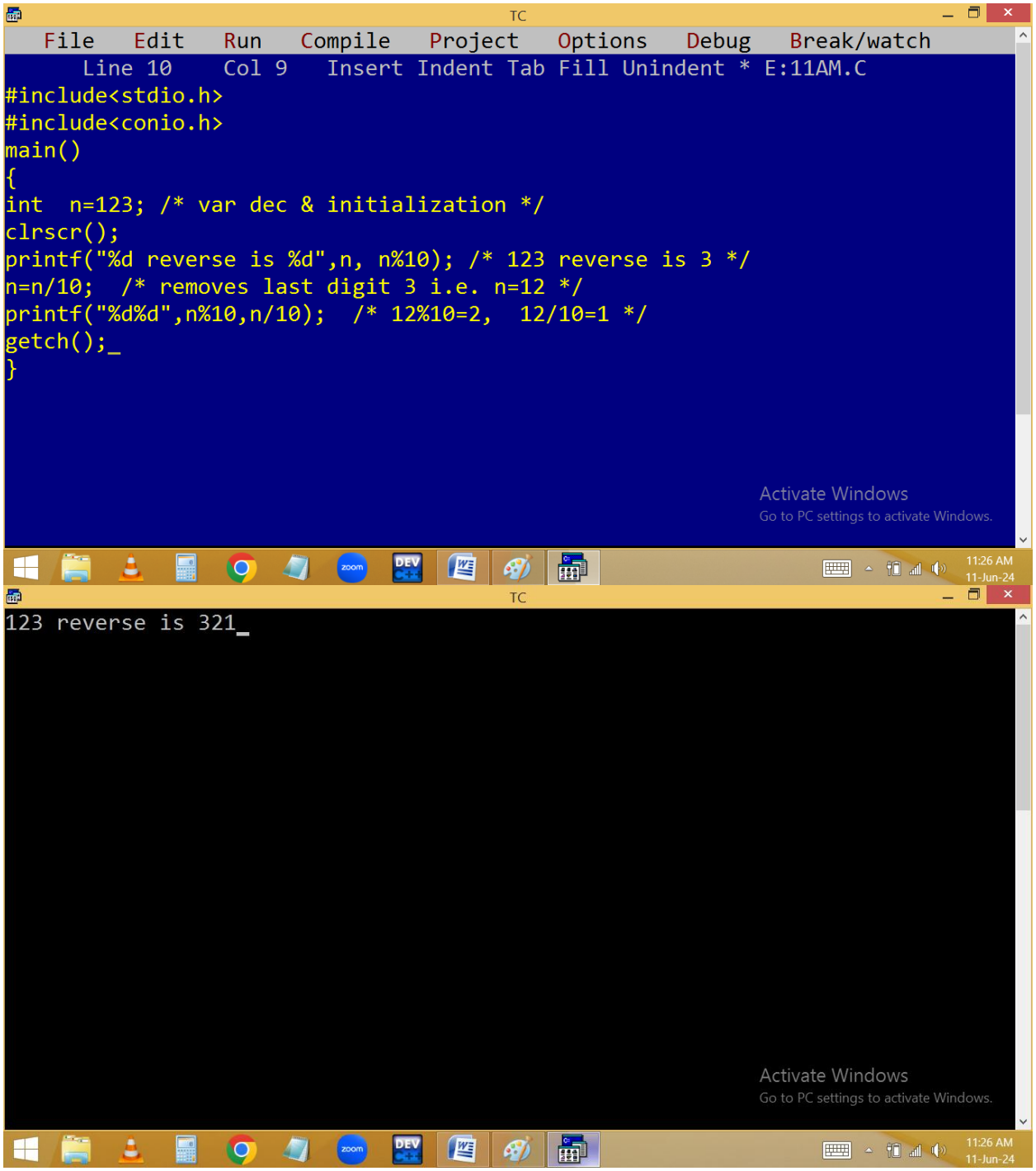
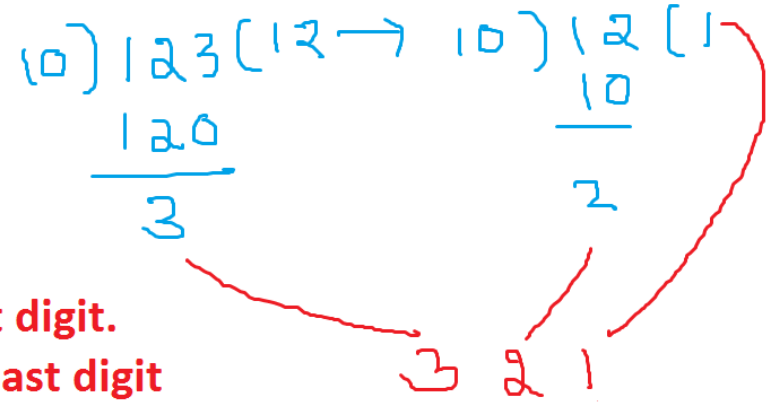
Printing a 3 digit no in reverse order without using loops:


TC
File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 9 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
int n=123; /* var dec & initialization */
clrscr();
printf("%d reverse is %d",n, n%10); /* 123 reverse is 3 */
n=n/10; /* removes last digit 3 i.e. n=12 */
printf("%d%d",n%10,n/10); /* 12%10=2, 12/10=1 */
getch();
}
Activate Windows
Go to PC settings to activate Windows.
11:26 AM
11-Jun-24
TC
123 reverse is 321
Activate Windows
Go to PC settings to activate Windows.
11:26 AM
11-Jun-24

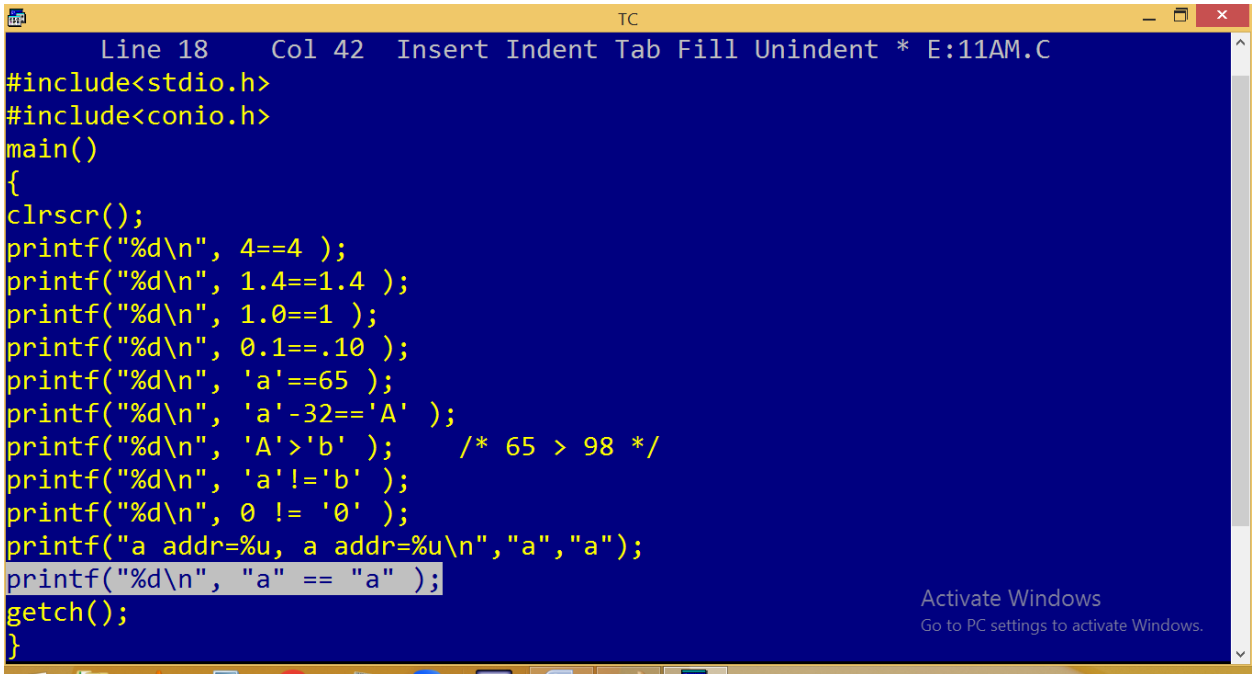
123%10=3 print
123/10=12
12%10=2 print
12/10=1 print

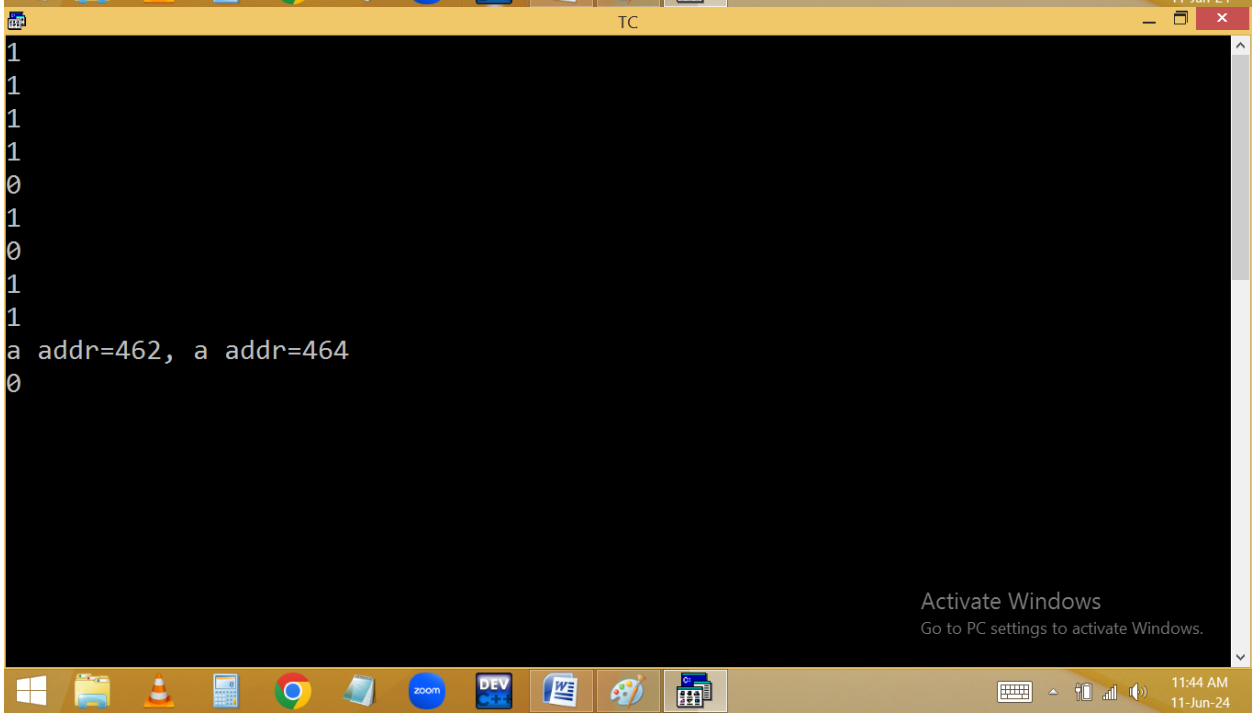


Any no%10 gives last digit.
Any no/10 removes last digit

Relational operators [== (comparison), <, >, <=, >=, != (not equal)]:

They are used to check the given condition or expression is true or false. If condition true always it return 1 and condition false it return 0.

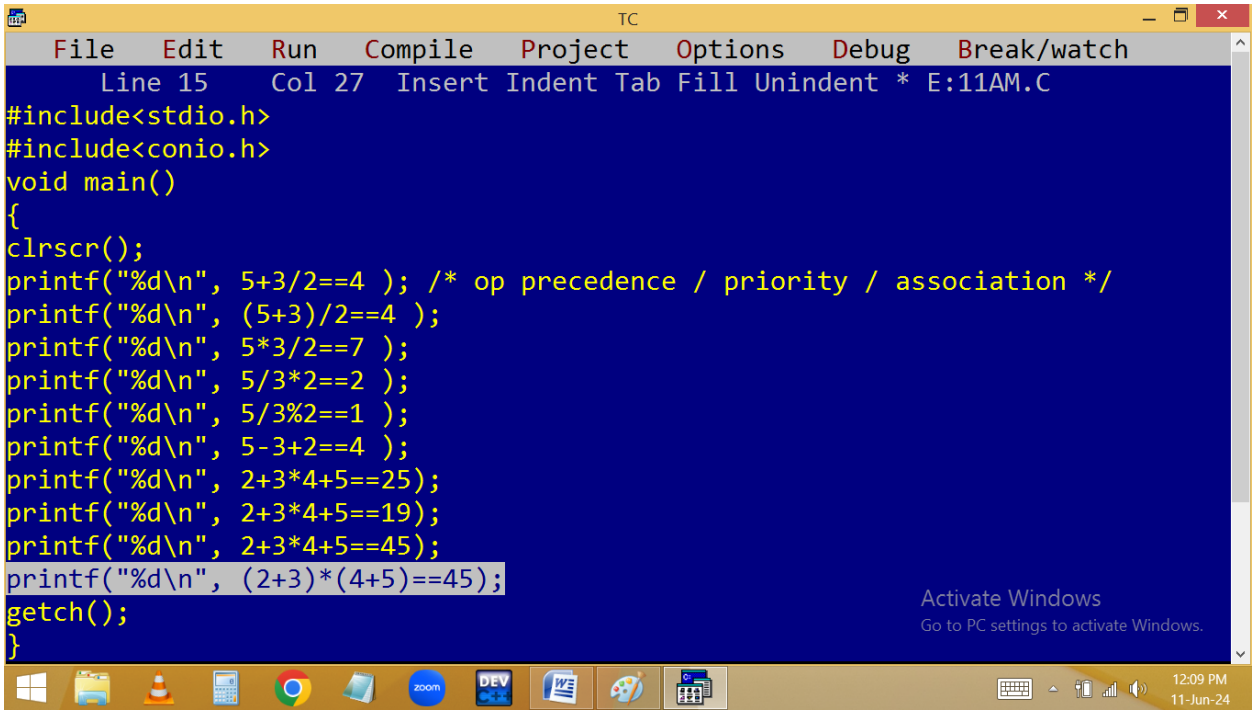

TC
Line 18 Col 42 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
clrscr();
printf("%d\n", 4==4);
printf("%d\n", 1.4==1.4);
printf("%d\n", 1.0==1);
printf("%d\n", 0.1==.10);
printf("%d\n", 'a'==65);
printf("%d\n", 'a'-32=='A');
printf("%d\n", 'A'>'b'); /* 65 > 98 */
printf("%d\n", 'a'!='b');
printf("%d\n", 0 != '0');
printf("a addr=%u, a addr=%u\n","a","a");
printf("%d\n", "a" == "a");
getch();
}
Activate Windows
Go to PC settings to activate Windows.
11:44 AM
11-Jun-24


TC
1
1
1
1
0
1
0
1
1
a addr=462, a addr=464
0
Activate Windows
Go to PC settings to activate Windows.
11:44 AM
11-Jun-24

Operator precedence / Operator priority

(ASSOCIATION OF OPERATORS)

1. ()
2. +, - , ! (sign operators, unary operators)
3. ++, -- (pre increment & decrement)
4. *, / , %
5. +, - (Binary)
6. = =, !=
7. &&
8. ||
9. **? :** (ternary operator)
10. =
11. ++, -- (Post increment & decrement)
12. , (comma)


TC
File Edit Run Compile Project Options Debug Break/watch
Line 15 Col 27 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%d\n", 5+3/2==4); /* op precedence / priority / association */
printf("%d\n", (5+3)/2==4);
printf("%d\n", 5*3/2==7);
printf("%d\n", 5/3*2==2);
printf("%d\n", 5/3%2==1);
printf("%d\n", 5-3+2==4);
printf("%d\n", 2+3*4+5==25);
printf("%d\n", 2+3*4+5==19);
printf("%d\n", 2+3*4+5==45);
printf("%d\n", (2+3)*(4+5)==45);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
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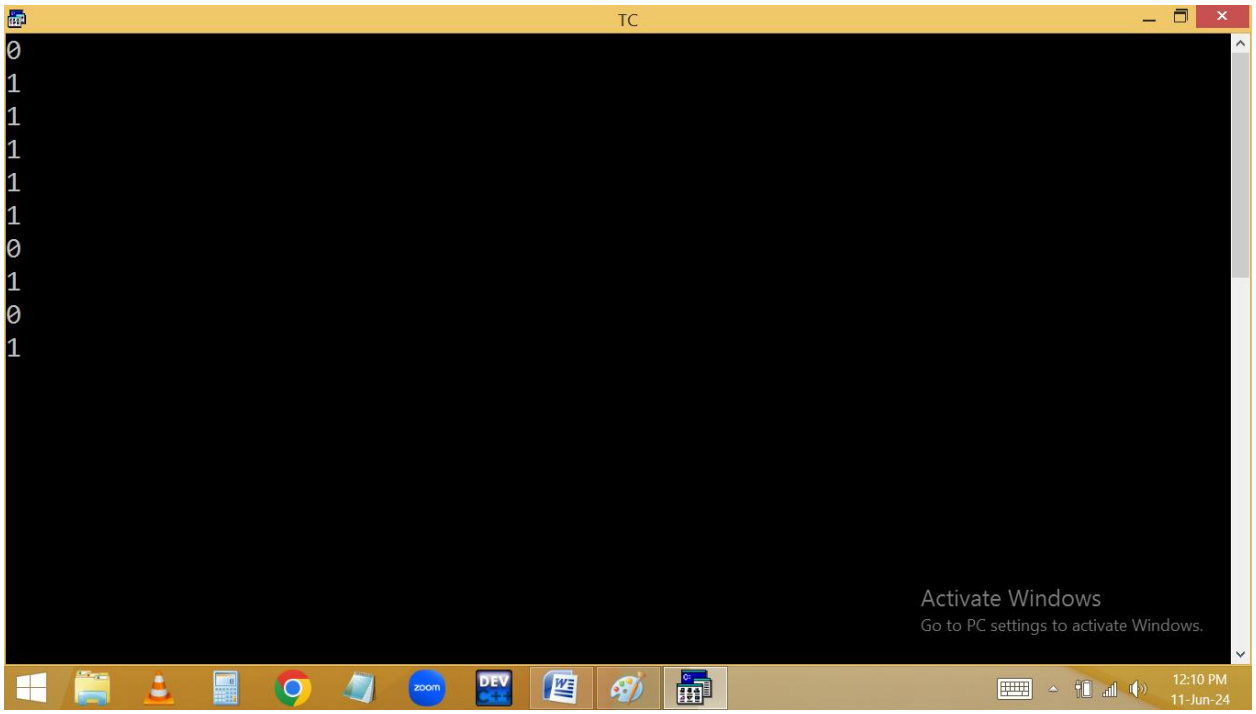

TC
0
1
1
1
1
1
0
1
0
1
Activate Windows
Go to PC settings to activate Windows.
12:10 PM
11-Jun-24

Logical operators:

1. && - logical and
2. || - Logical or
3. ! – Logical not

&& , || are used to combine two or more expressions in to a single expression.

! operator is used for negation. i.e. true become false and false become true.

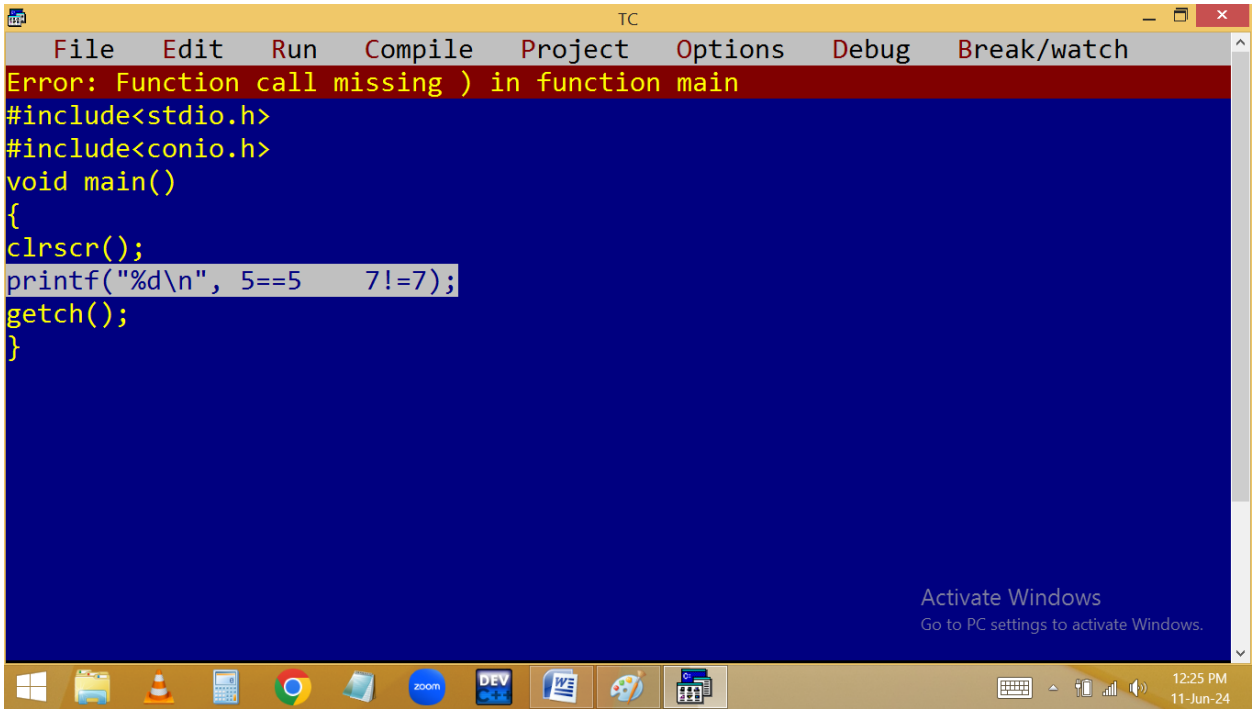
Note: In C other than 0 anything is 1 i.e. true

Truth tables:

Operator	Expression1	Expression2	Result
&&	1 - true	1	1
	1	0	0
	0	1	0
	0	0	0
||	1	1	1
	1	0	1
	0	1	1
	0	0	0

!true = false

!false = true


TC
File Edit Run Compile Project Options Debug Break/watch
Error: Function call missing) in function main
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%d\n", 5==5 7!=7);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
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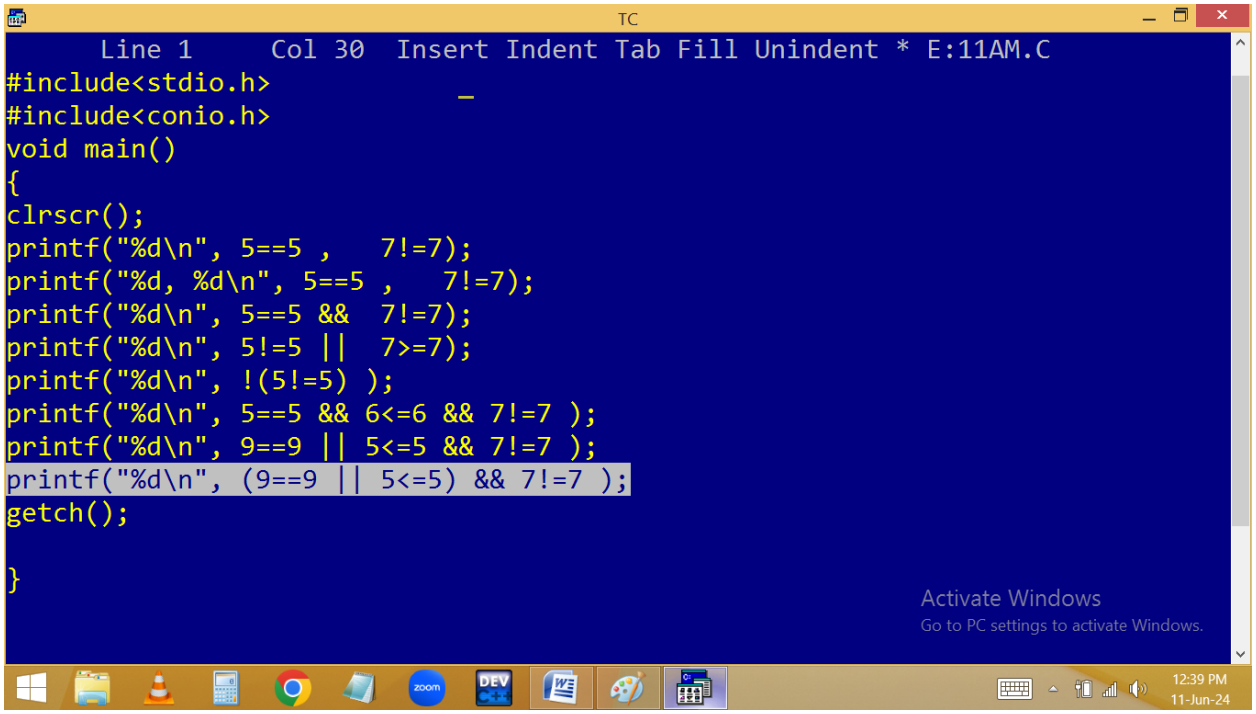
TC
Line 1 Col 30 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%d\n", 5==5 , 7!=7);
printf("%d, %d\n", 5==5 , 7!=7);
printf("%d\n", 5==5 && 7!=7);
printf("%d\n", 5!=5 || 7>=7);
printf("%d\n", !(5!=5));
printf("%d\n", 5==5 && 6<=6 && 7!=7);
printf("%d\n", 9==9 || 5<=5 && 7!=7);
printf("%d\n", (9==9 || 5<=5) && 7!=7);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
12:39 PM
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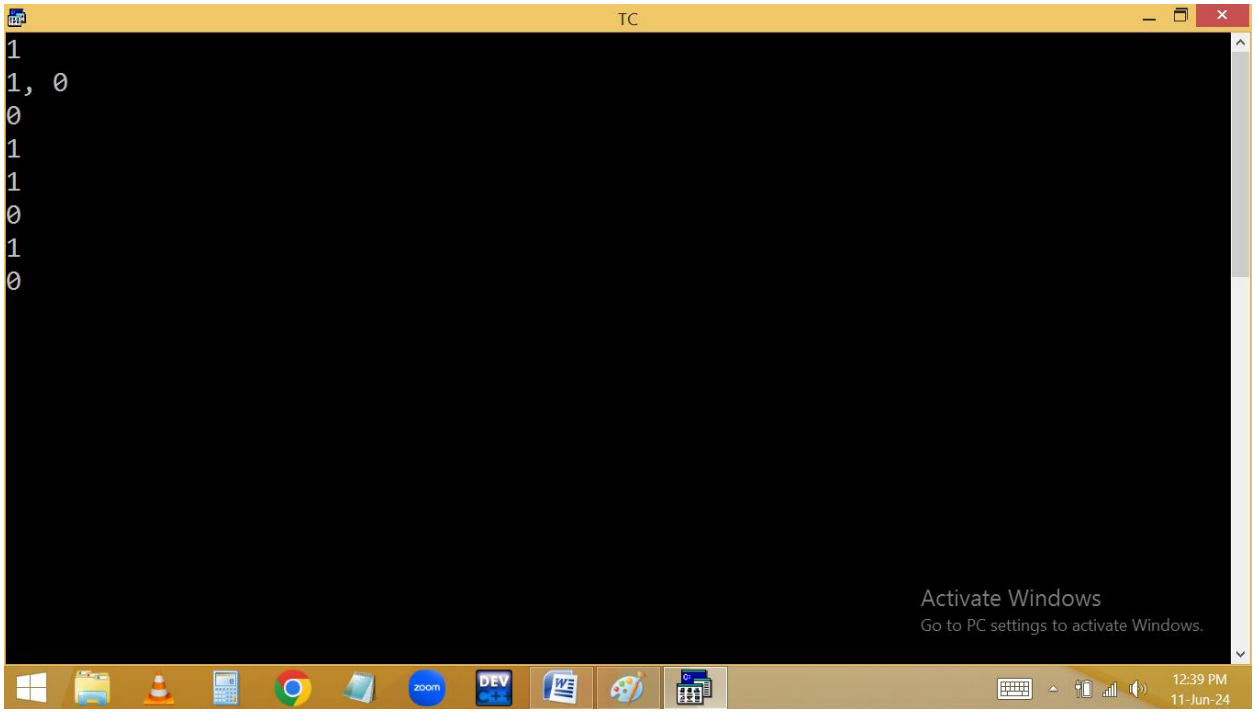
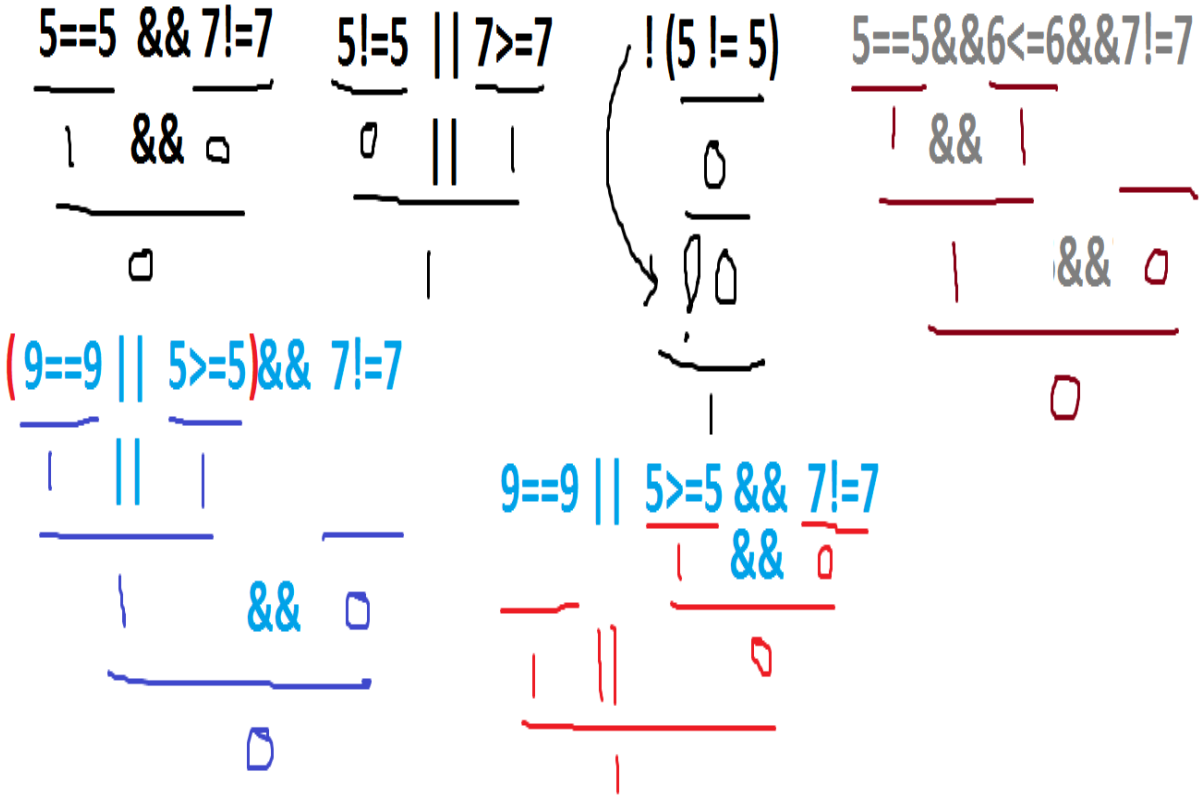
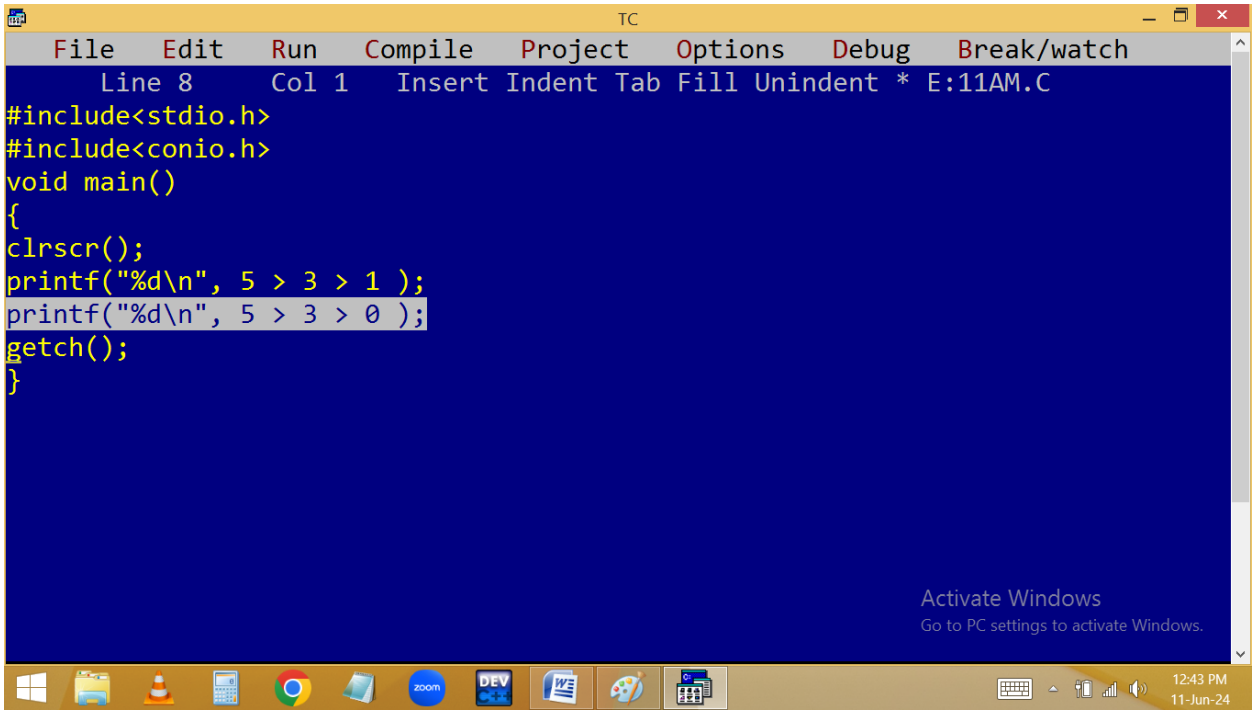
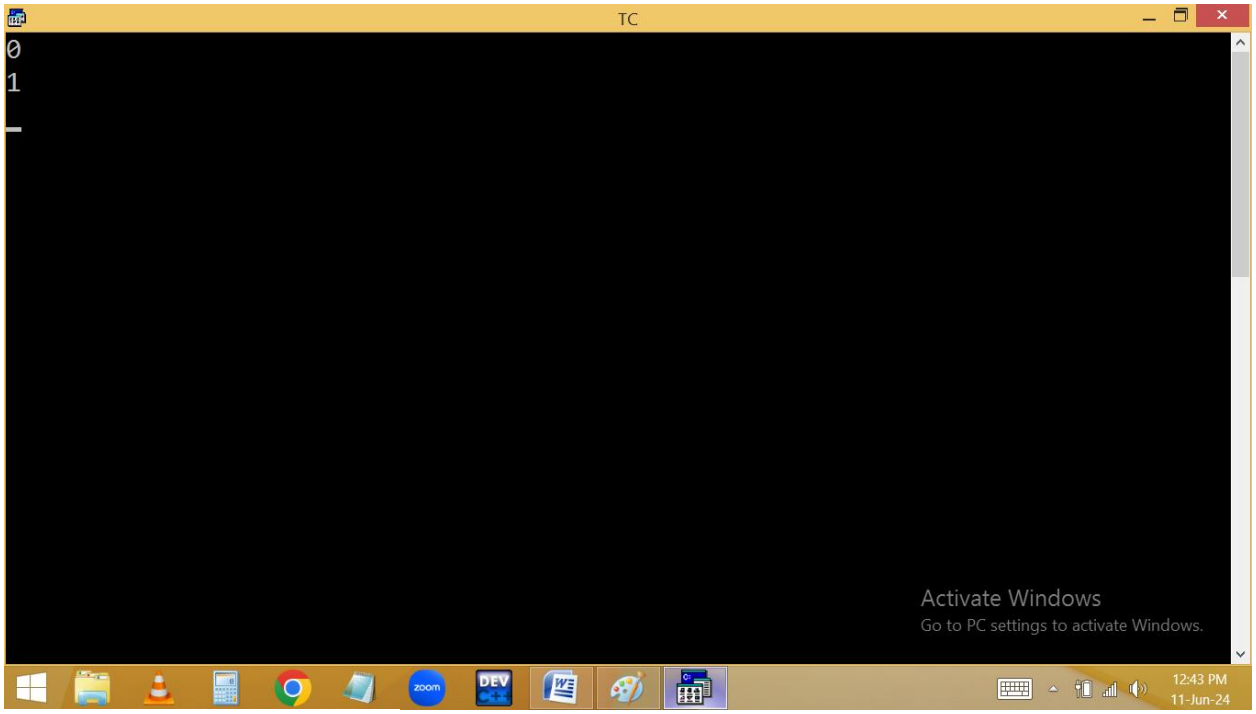

TC
1
1, 0
0
1
1
0
1
0
Activate Windows
Go to PC settings to activate Windows.
12:39 PM
11-Jun-24


5==5 && 7!=7
1 && 0
0
5!=5 || 7>=7
0 || 1
1
! (5 != 5)
0
0
1
5==5&&6<=6&&7!=7
1 && 1
1 && 0
0
(9==9 || 5>=5)&& 7!=7
1 || 1
1 && 0
0
9==9 || 5>=5 && 7!=7
1 && 0
1 || 0
1


TC
File Edit Run Compile Project Options Debug Break/watch
Line 8 Col 1 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%d\n", 5 > 3 > 1);
printf("%d\n", 5 > 3 > 0);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
12:43 PM
11-Jun-24


TC
0
1
Activate Windows
Go to PC settings to activate Windows.
12:43 PM
11-Jun-24

5 > 3 > 1

1 > 1

0