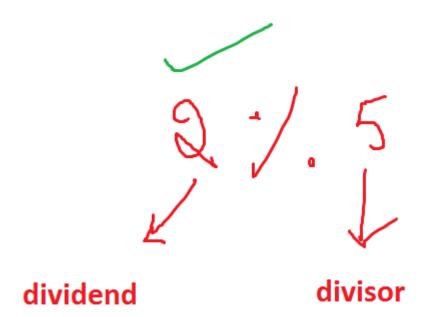
ARITHMETIC OPERATORS [+, -, *, %, /]

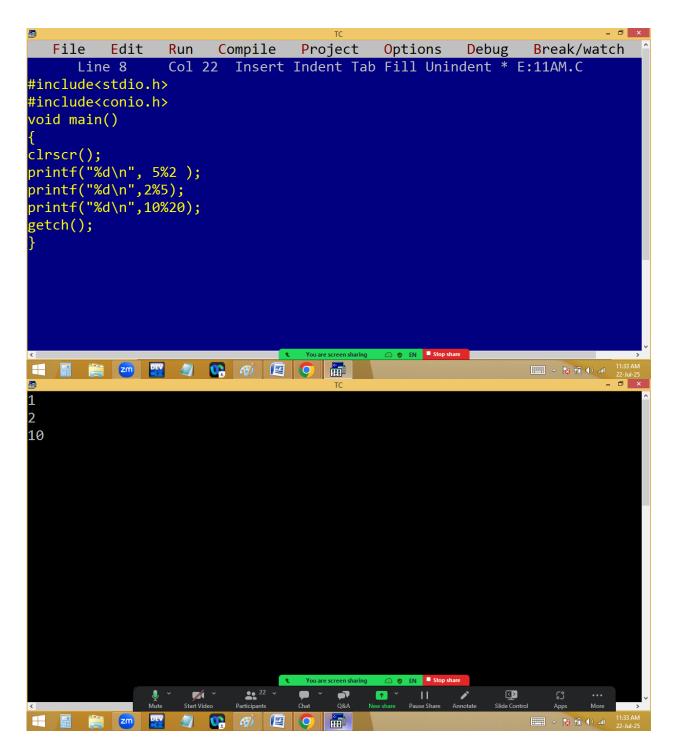
They are used to perform mathematical operations.

Eg: a+b, a-b, a*b,.....

% - modulo division [modules / remainder]:

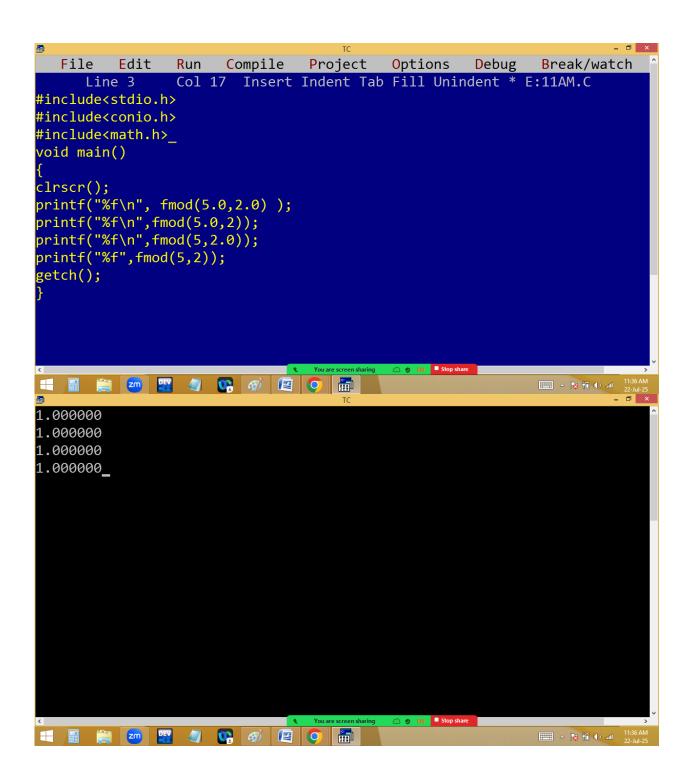
Note: if the divisor bigger than dividend then dividend is the answer.





5.0 % 2.0 = Error

Note: In C & C++ % operator can't perform floating modules. For this we have to use the predefined function fmod() available in <math.h>

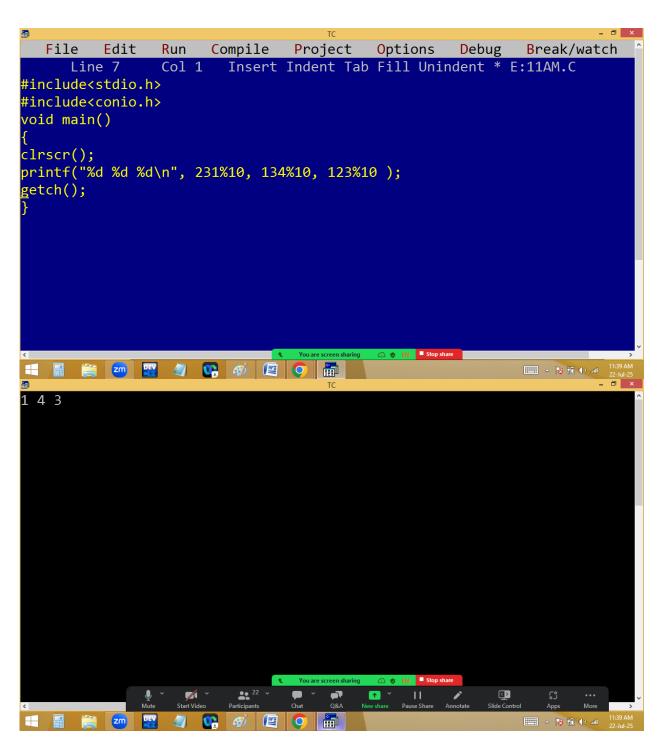


231%10=1

124%10=4

123%10=3

Note: Any no%10 gives last digit.

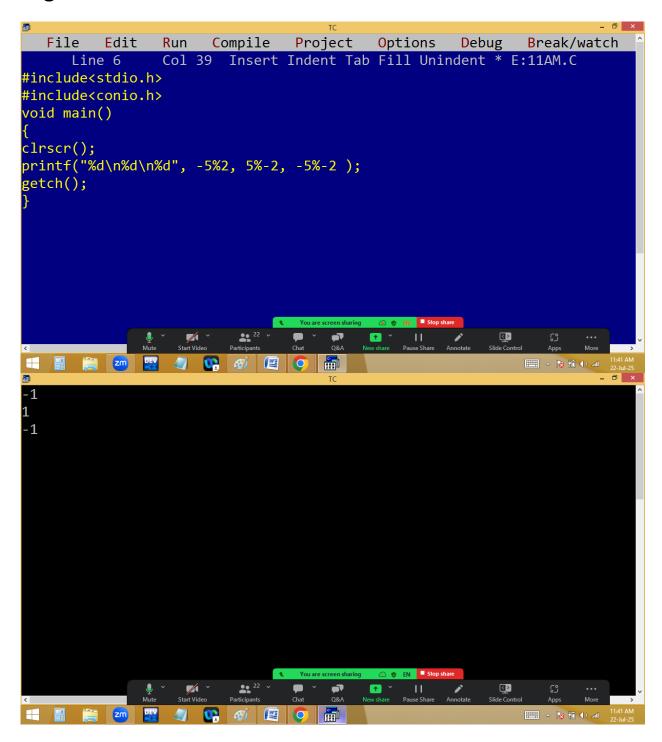


-5%2= -1

5%-2= 1

-5%-2=-1

Note: In modules if the numerator is negative then result also negative.



/ - division [Quotient]:

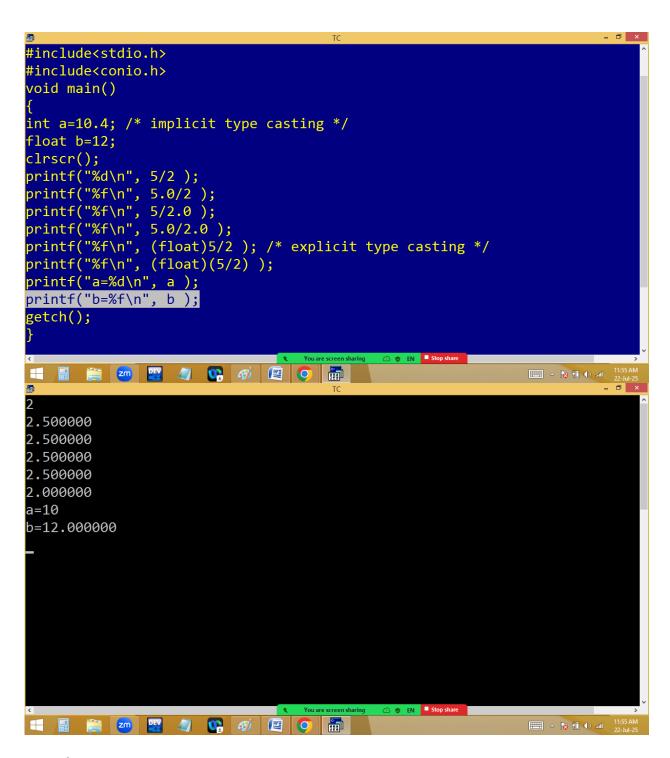
Note: In division both operands are int then result also int. any one or both floats then result also float.

$$5.0/2=2.500000$$

 $5/2.0=2.500000$
 $5.0/2.0=2.500000$
Int $a = 5.2; \Rightarrow a=5 \iff$ implicit type casting float $b = 12; \Rightarrow b=12.000000$
(int) $5.0/2 = 2 /*$ explicit type casting */

(float) $5/2=2.500000$ /* explicit type casting */

(float) $(5/2) = 2.000000$

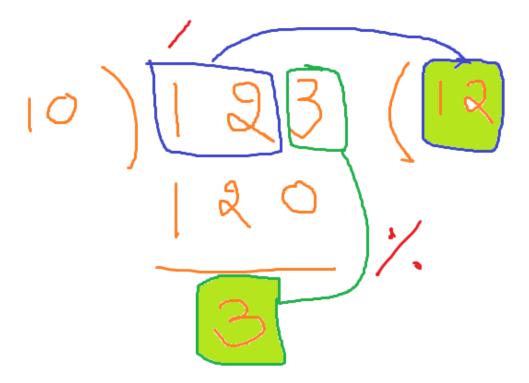


123/10=12

12/10=1

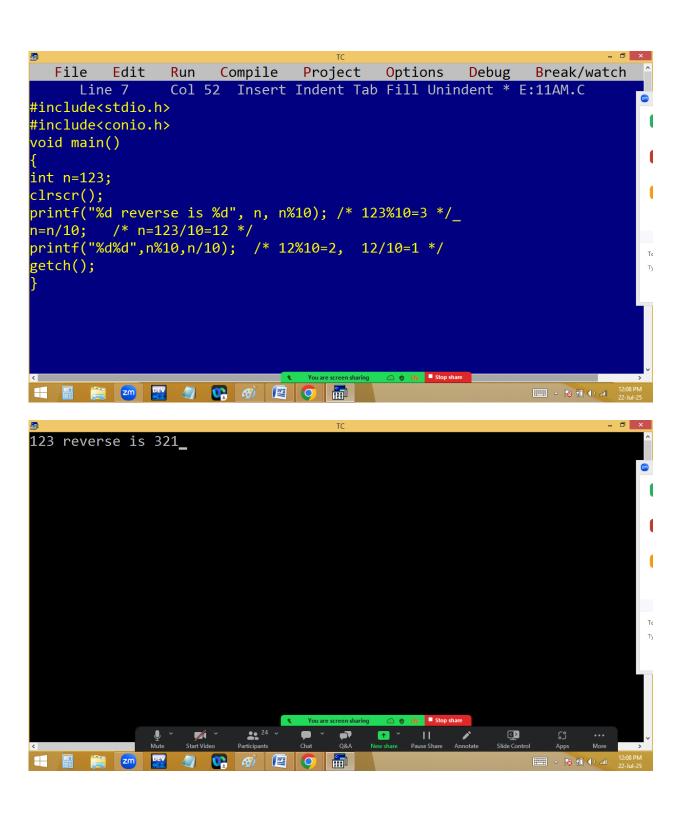
1/10=0

Note: Any no/10 removes the last digit.



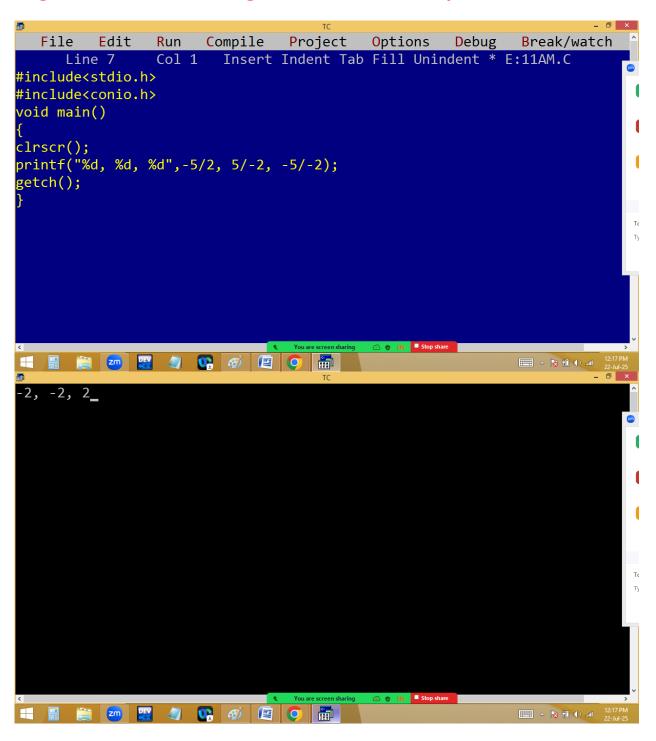
Write a C program to print a 3 digit no in reverse or without using loops.

Eg: 123 reverse is 321



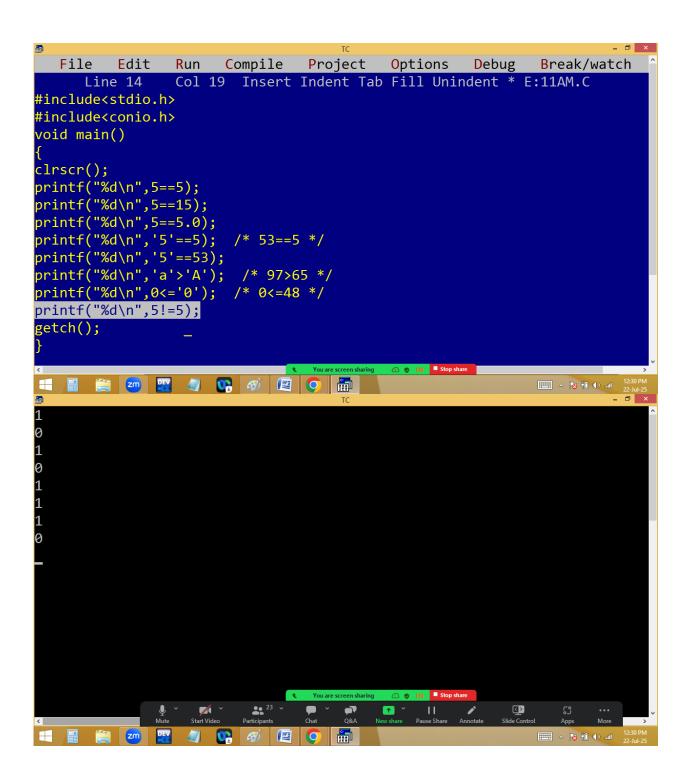
-5/-2= 2

Note: In division any one operand is negative then result also negative. If both are negative then result is positive.



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

They are used to check the given expression is true or false. If the expression is true always the answer is 1. If expressions false the answer is 0.



```
_ 🗇 ×
#include<stdio.h>
#include<conio.h>
void main()
clrscr();
printf("%d\n",5+3/2==4);
printf("%d\n",5+3/2==6);
printf("%d\n",(5+3)/2==4); /* operator precedence / operator priority / as
printf("%d\n",5*3/2==7);
printf("%d\n",5-3+2==4);
printf("%d\n",5-(3+2)==4);
printf("%d\n",2+3*4+5==19);
printf("%d\n",2+3*4+5==25);
printf("%d\n",2+3*4+5==45);
printf("%d\n",(2+3)*(4+5)==45);
getch();
       👸 🥶 💹 🐠 😘 🕮 👩 🛅
          □□□□ △ 🔯 🗓 (b) and 12:49 P
```

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)