

$$123/10=12$$

$$12/10=1$$

$$1/10=0$$

Note: Any no/10 removes last digit.

$$\begin{array}{r} 10 \overline{) 123} \\ \underline{120} \\ 3 \end{array}$$

12

The image shows a screenshot of a Turbo C++ (TC) IDE window. The top menu bar includes File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. The status bar at the top indicates 'Line 9 Col 1 Insert Indent Tab Fill Unindent * E:2PM.C'. The main editing area has a blue background and contains the following C code:

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%d\n",123/10);
printf("%d\n",12/10);
printf("%d",1/10);
getch();
}
```

Below the code editor, a black console window displays the output of the program:

```
12
1
0_
```

The Windows taskbar is visible at the bottom, showing various application icons and the system clock indicating 2:27 PM on 12-Aug-23. A green banner across the taskbar states 'You are screen sharing' with a 'Stop Share' button. An 'Activate Windows' watermark is present in the bottom right corner of the console window.

Write a c program to print a 3 digit no in reverse order without using loop.

Example printing 123 as 321

TC

File Edit Run Compile Project Options Debug Break/watch

Line 9 Col 48 Insert Indent Tab Fill Unindent * E:2PM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
int n=123;
clrscr();
printf("%d reverse is %d", n, n%10); /* 123 reverse is 3 */
n=n/10; /* 123/10=12 ==> 3 deleted */
printf("%d%d",n%10,n/10); /*12%10=2 12/10=1 */_
getch();
}
```

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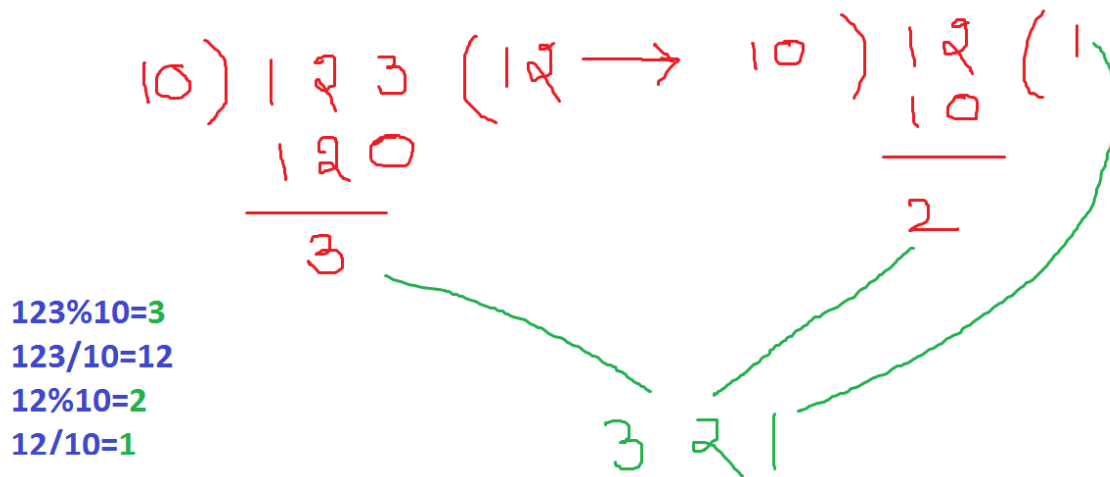
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TC

```
123 reverse is 321_
```

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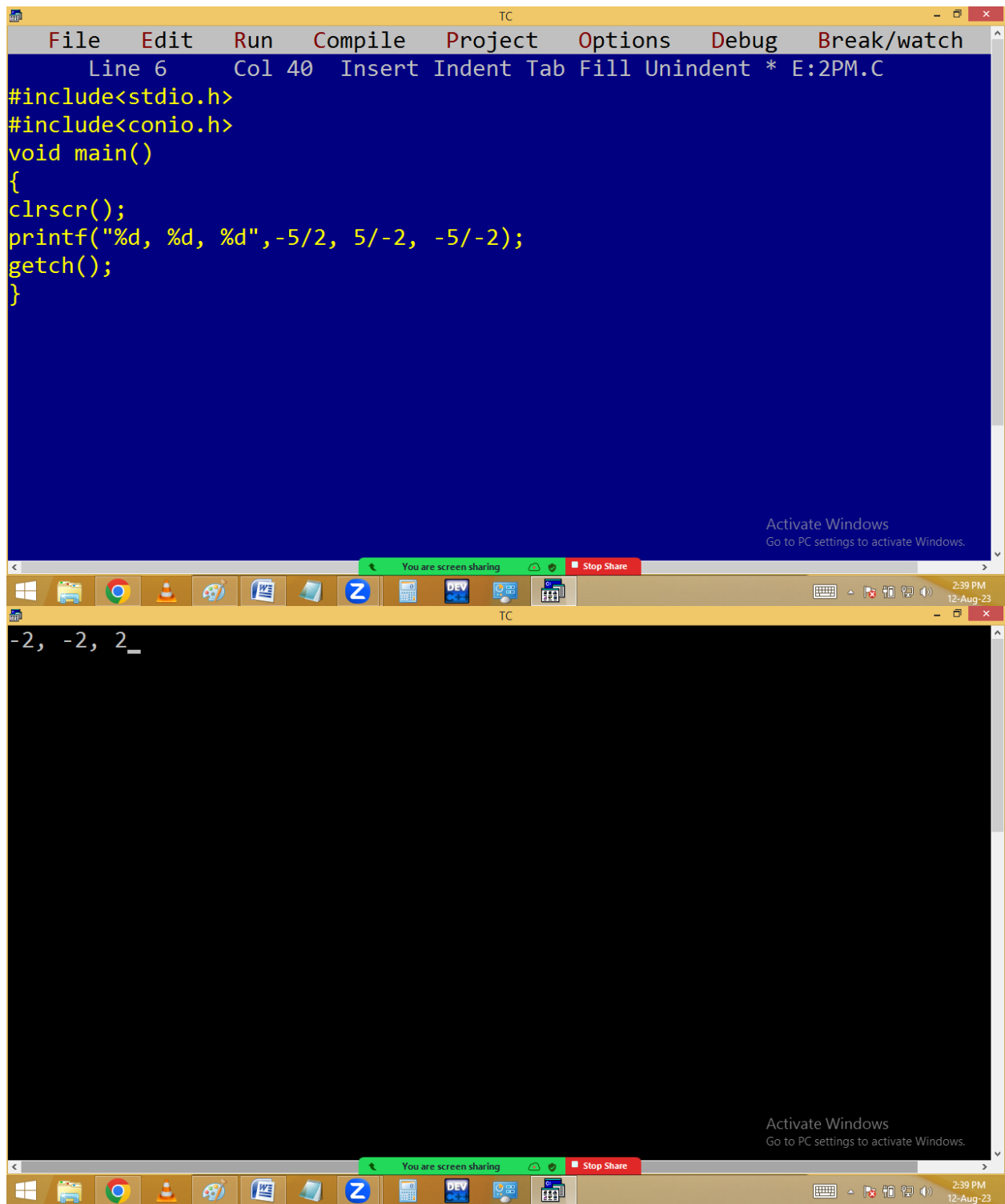


$$-5/2=-2$$

$$5/-2=-2$$

$$-5/-2= 2$$

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



TC

File Edit Run Compile Project Options Debug Break/watch

Line 6 Col 40 Insert Indent Tab Fill Unindent * E:2PM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%d, %d, %d",-5/2, 5/-2, -5/-2);
getch();
}
```

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-2, -2, 2_

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

They are used to find the relation or expression / condition is true or false. If condition **true** always it returns 1 [non-zero value]. If condition **false** it returns **0**

TC

File Edit Run Compile Project Options Debug Break/watch

Line 15 Col 1 Insert Indent Tab Fill Unindent * E:2PM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%d\n", 5==5);
printf("%d\n", 9==9);
printf("%d\n", 9==9.0);
printf("%d\n", 0.9==.90);
printf("%d\n", 'a'=='A');
printf("%d\n", 'a'=="a");
printf("%d\n", "a"=="a");
printf("%d\n", 'a'==97);
printf("%d\n", 'a'=='A'+32);
getch();
}
```

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2:48 PM 12-Aug-23

TC

```
1
0
1
1
0
0
0
1
1
_
```

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2:49 PM 12-Aug-23

Line 18Col 24InsertIndentTabFillUnindent* E:2PM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%d\n", 'A'>'a'); /* 65 > 97 */
printf("%d\n", 8<=8);
printf("%d\n", 8!=8);
printf("%d\n", 'a'-32!='b'); /* 65 != 98 */
printf("%d\n", 0<='0'); /* 0<=48 */
printf("%d\n", 5+3/2==4); /* 3/2=1 ==> 5+1=6==4 ==> false */
printf("%d\n", (5+3)/2==4);
printf("%d\n", 5-3+2==4);
printf("%d\n", 5*3%2==1);
printf("%d\n", 5%3*2==4);
printf("%d\n", 5%3/2==1);
getch();
}
```

TC

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TC

0
1
0
1
1
0
1
1
1
1
1
1

TC

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File Edit Run Compile Project Options Debug Break/watch

Line 7 Col 30 Insert Indent Tab Fill Unindent * E:2PM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%d\n", 2+3*4+5==19);
printf("%d\n", 2+3*4+5==45);
printf("%d\n", 2+3*4+5==25);
printf("%d\n", (2+3)*(4+5)==45);
getch();
}
```

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```
1
0
0
1
```

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Line 10 Col 23 Insert Indent Tab Fill Unindent * E:2PM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a,b,c;
clrscr();
a = printf("I");
b = printf("Love");
c = printf("You");
printf("%d%d%d", a,b,c);
getch();
}
```

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Windows icons: File Explorer, Google Chrome, VLC media player, Paint, Word, Z, DEV, etc.

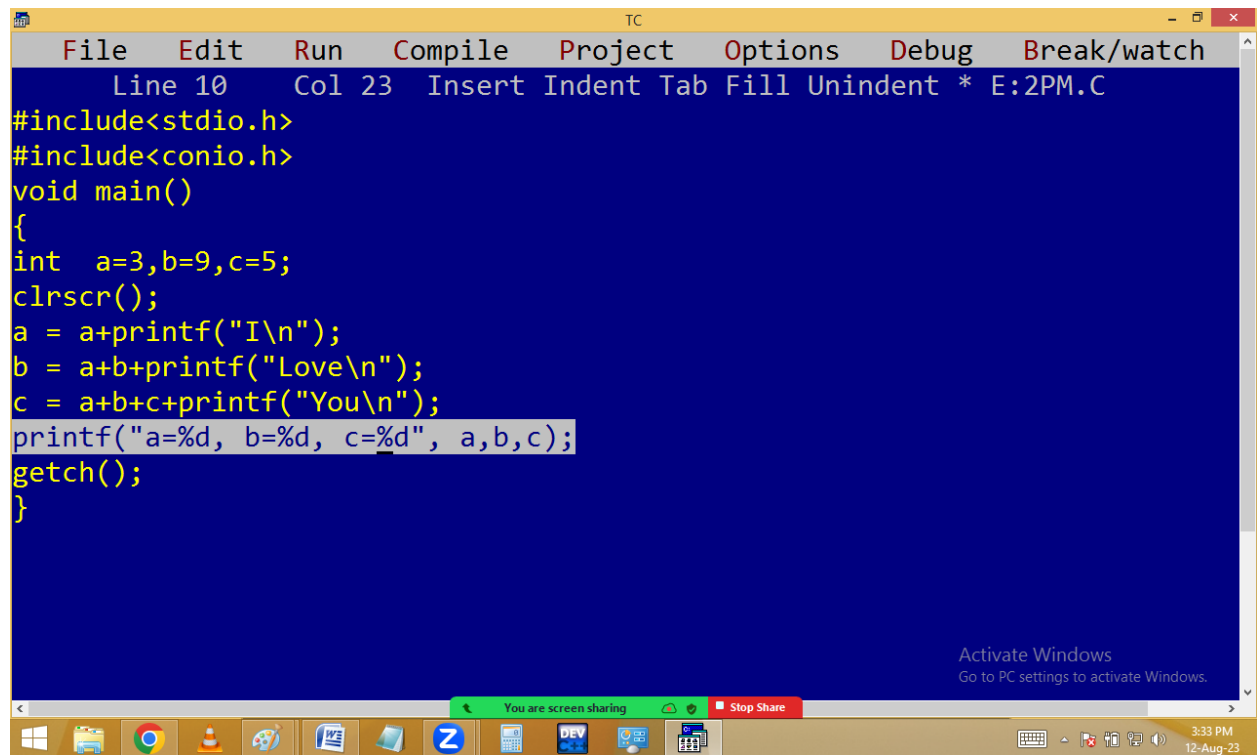
TC

ILoveYou143

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Windows icons: File Explorer, Google Chrome, VLC media player, Paint, Word, Z, DEV, etc.

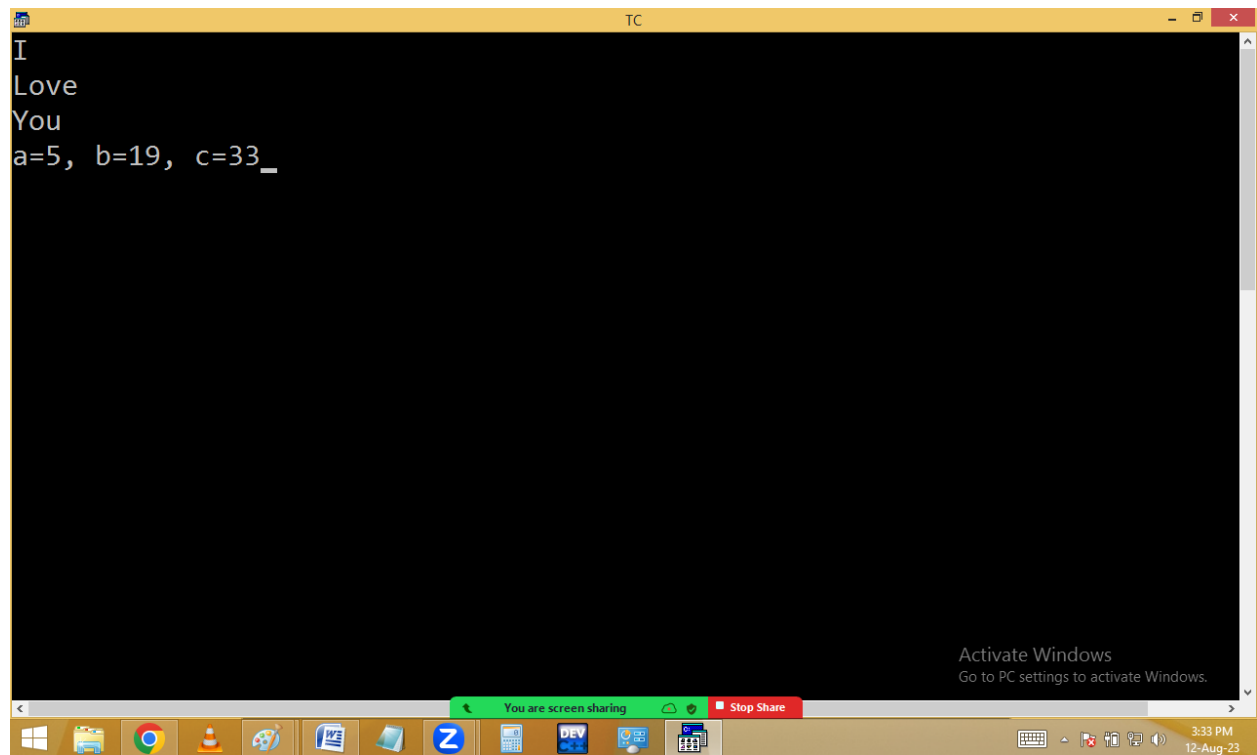


```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 23 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int  a=3,b=9,c=5;
clrscr();
a = a+printf("I\n");
b = a+b+printf("Love\n");
c = a+b+c+printf("You\n");
printf("a=%d, b=%d, c=%d", a,b,c);
getch();
}
```

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```
int a=3, b=9, c=5;
```

```
a = a+p("I\n");
```

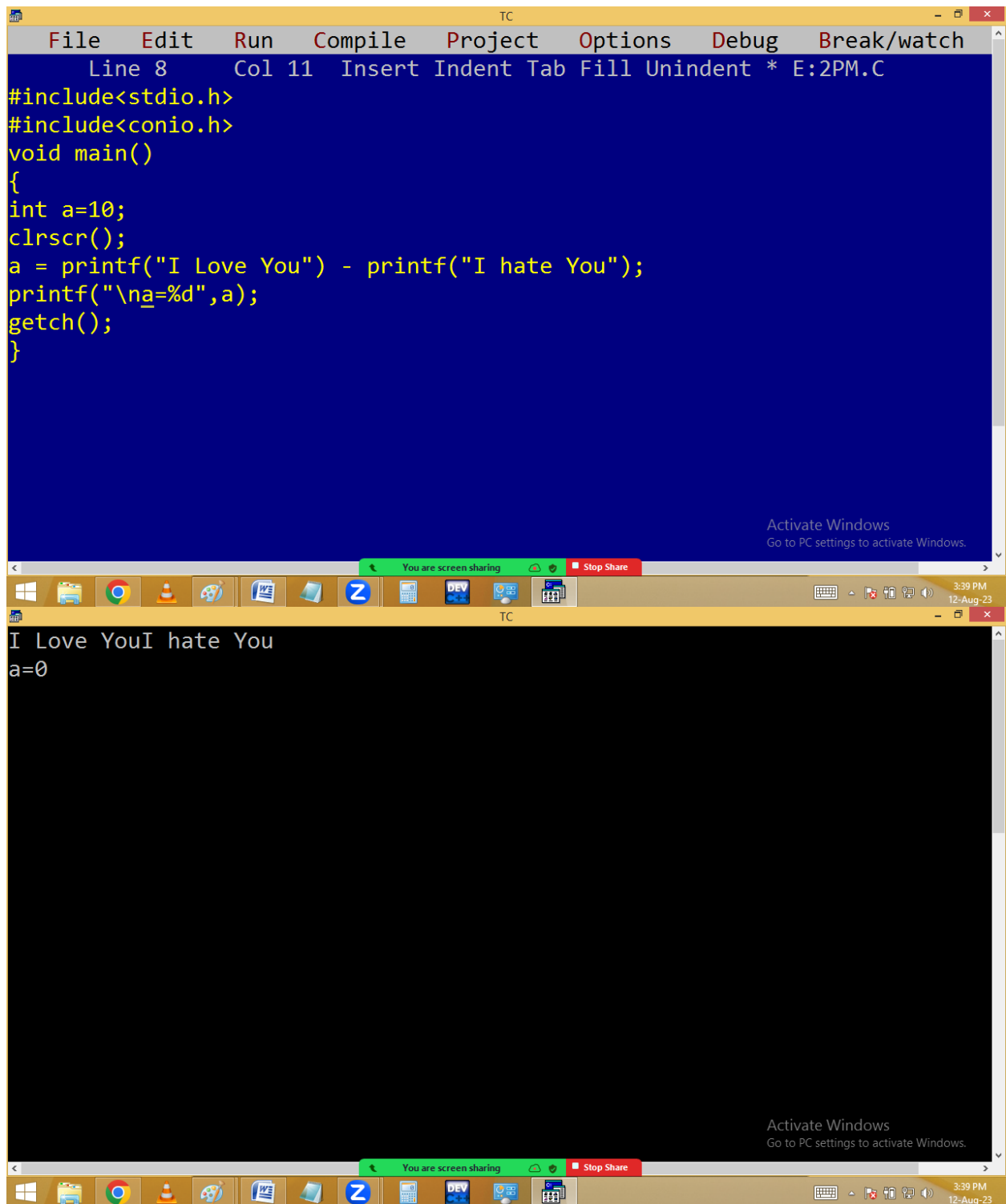
$$a = 3 + 2 = 5$$

```
b = a+b+p("Love\n");
```

$$b = 5 + 9 + 5 = 19$$

```
c = a+b+c+p("You\n");
```

$$c = 5 + 19 + 5 + 4 = 33$$



The image shows a screenshot of the Turbo C++ (TC) IDE. The top window is the source code editor for a file named E:2PM.C. The code is as follows:

```
File Edit Run Compile Project Options Debug Break/watch
Line 8 Col 11 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a=10;
clrscr();
a = printf("I Love You") - printf("I hate You");
printf("\na=%d",a);
getch();
}
```

The bottom window shows the output of the program. It displays the text "I Love YouI hate You" on the first line and "a=0" on the second line. The output window also shows the "Activate Windows" watermark.

TC

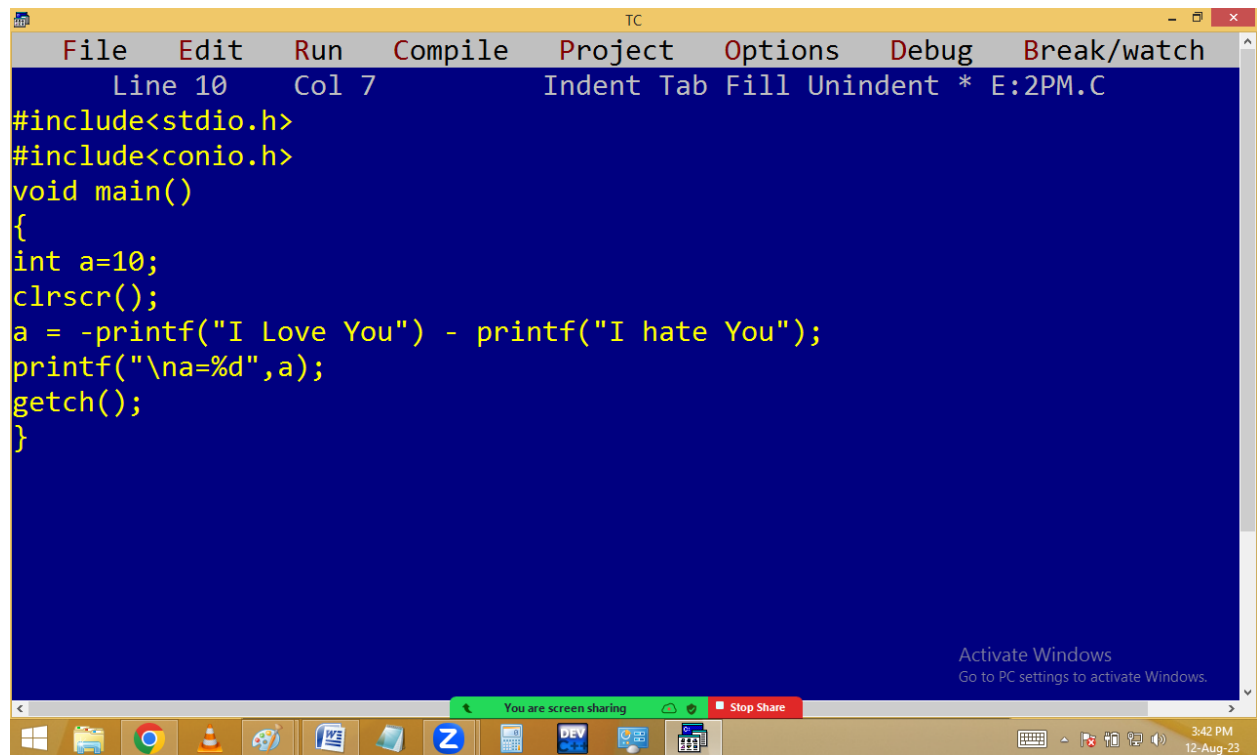
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```
File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 7 Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a=10;
clrscr();
a = -printf("I Love You") - printf("I hate You");
printf("\na=%d",a);
getch();
}
```

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