

```
Line 4    Col 2    Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{clrscr();
printf("%c + %c = %c\n",1,2,3);
printf("%i + %i = %d\n",1,2,3);
printf("%id + %id = %id\n",1,2,3);
printf("%5d\n",12); /* ---12 */
printf("%-5d\n",12); /* 12--- */
printf("%1d\n",27);
printf("%.5d\n",27);
printf("%-.5d\n",27);
printf("%*d\n",4,27);
printf("%$d\n",4,27);
printf("%-*d",4,27);
getch();
}
```

☺ + ☹ = ♥
1 + 2 = 3
1d + 2d = 3d
12
12
27
00027
00027
27
%\$d
27

The image shows two windows of the Turbo C++ (TC) IDE. The top window is the source code editor, displaying a C program. The bottom window is the output window, showing the execution results.

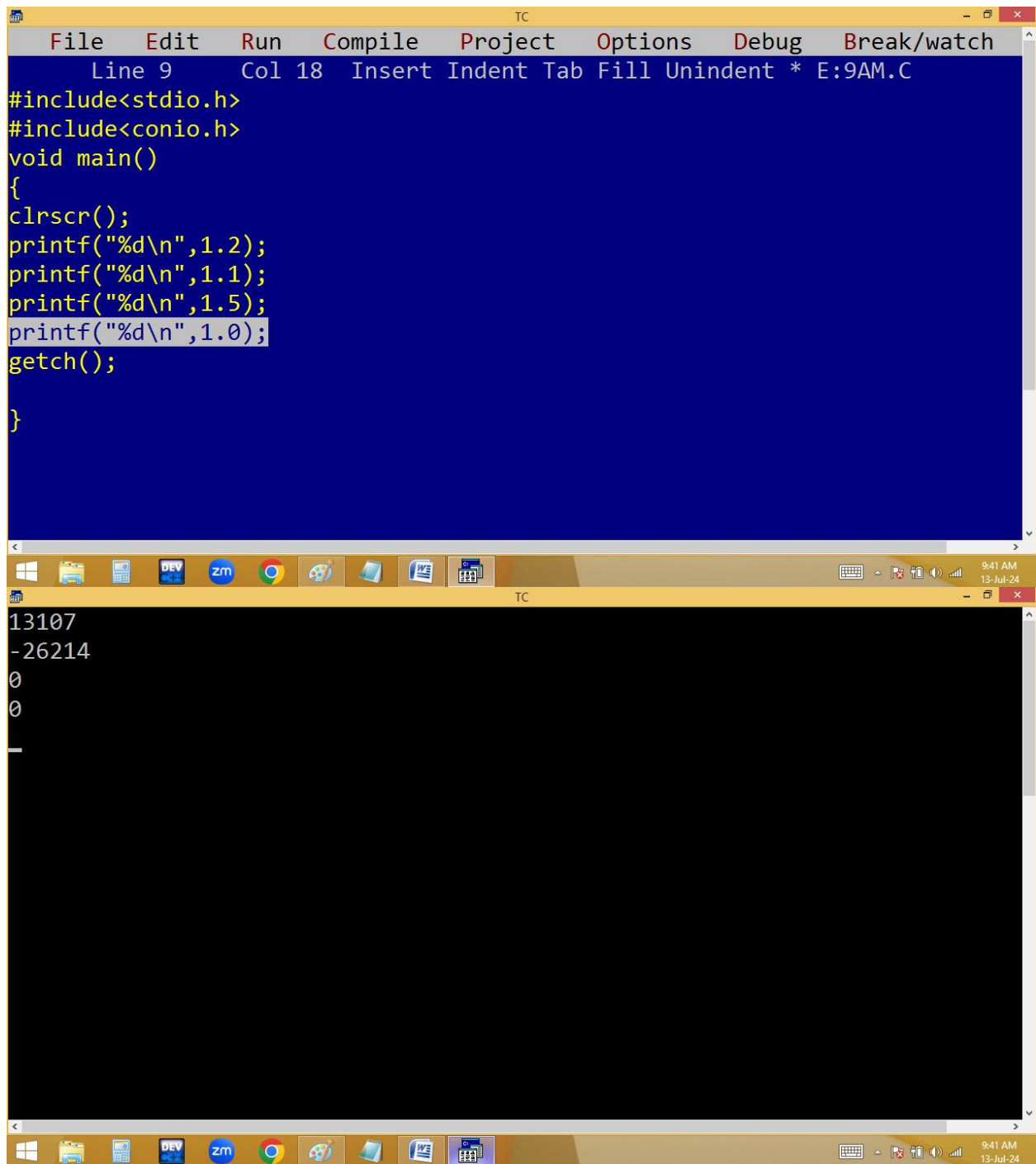
Top Window (Source Code):

```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 1 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a=3;
clrscr();
printf("%d + %d = %d\n",1,2);
printf("%c + %c = %c\n","a","b","c");
printf("%s + %s = %s\n",'a','b','c');
getch();
}
```

Bottom Window (Output):

```
TC
1 + 2 = 3
a + b = c
Program termination
h> a + gram termination
h> = ram termination
h>
```

The output window shows the results of the program's execution. The first two lines are the arithmetic and character concatenation results. The subsequent lines show the program's termination and some additional output that appears to be a mix of the program's output and the user's input or a system message.



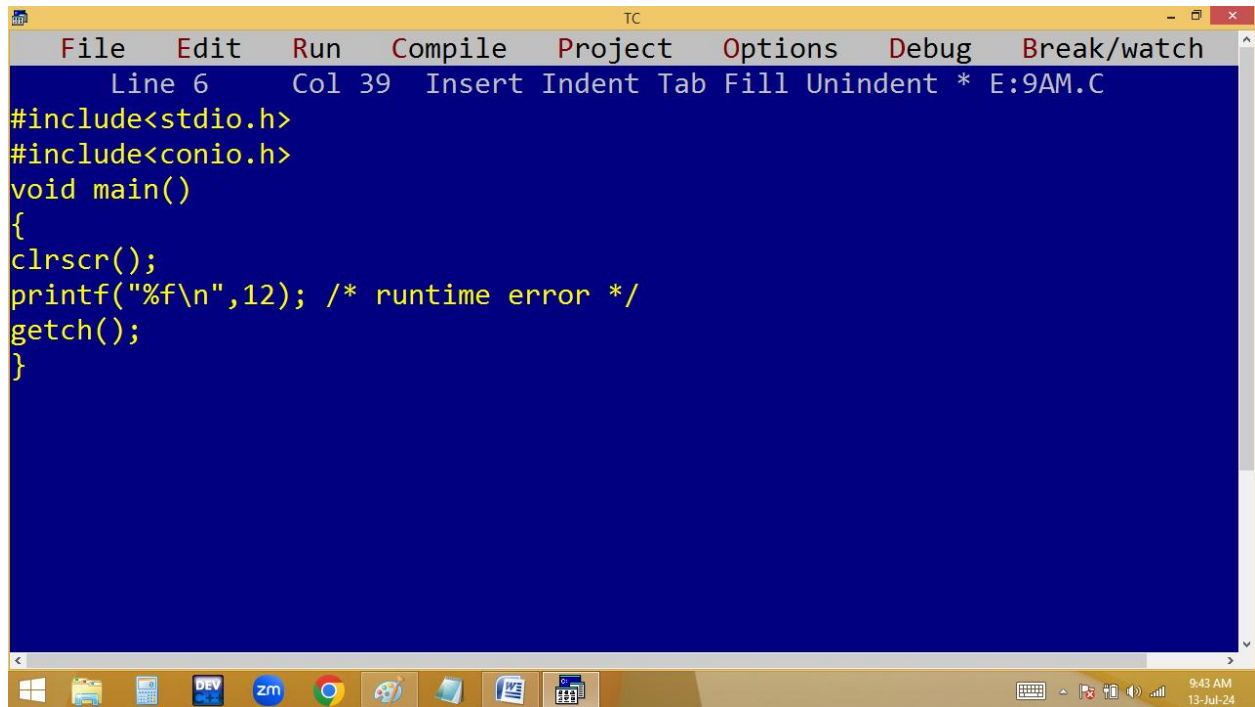
The image shows a screenshot of the Turbo C++ (TC) IDE. The top window is the source code editor, titled 'TC', with a menu bar (File, Edit, Run, Compile, Project, Options, Debug, Break/watch) and a status bar (Line 9, Col 18, Insert, Indent, Tab, Fill, Unindent, * E:9AM.C). The code is as follows:

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%d\n",1.2);
printf("%d\n",1.1);
printf("%d\n",1.5);
printf("%d\n",1.0);
getch();
}
```

The bottom window is the output console, also titled 'TC', showing the program's execution results:

```
13107
-26214
0
0
_
```

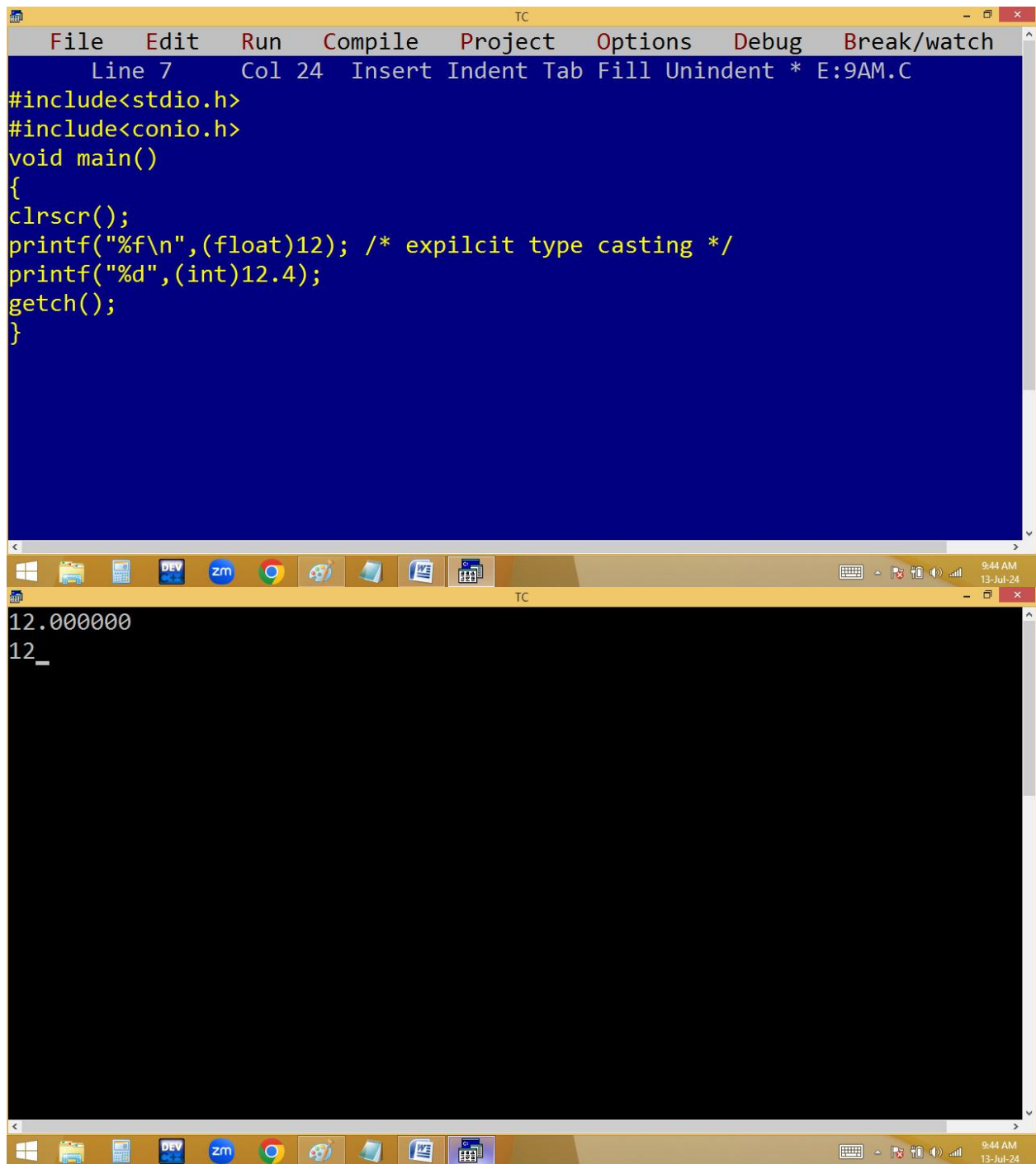
The Windows taskbar at the bottom includes icons for the Start menu, File Explorer, Task View, and several application windows (DEV, zm, Chrome, Paint, Word, Excel). The system tray on the right shows the time as 9:41 AM on 13-Jul-24.



The image shows a screenshot of the Turbo C++ (TC) IDE. The window title is "TC". The menu bar includes File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. The status bar at the top indicates "Line 6 Col 39 Insert Indent Tab Fill Unindent * E:9AM.C". The main editing area has a dark blue background with yellow text. The code is as follows:

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%f\n",12); /* runtime error */
getch();
}
```

The Windows taskbar is visible at the bottom, showing icons for Windows, File Explorer, Task Manager, DEV C++, Zoom, Google Chrome, and other applications. The system clock in the bottom right corner shows "9:43 AM 13-Jul-24".



The image shows a screenshot of the Turbo C++ (TC) IDE. The top window is the source code editor, which has a blue background. It contains a C program with the following code:

```
File Edit Run Compile Project Options Debug Break/watch
Line 7 Col 24 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%f\n",(float)12); /* explicit type casting */
printf("%d", (int)12.4);
getch();
}
```

The bottom window is the output console, which has a black background. It displays the output of the program:

```
12.000000
12_
```

The Windows taskbar is visible at the bottom of the screen, showing various application icons and the system clock indicating 9:44 AM on 13-Jul-24.

The image shows a screenshot of the Turbo C++ (TC) IDE. The top window displays a C program with the following code:

```
File Edit Run Compile Project Options Debug Break/watch
Line 13 Col 16 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
float a=1.5;
clrscr();
printf("%f\n",a); /* explicit type casting */
printf("%.0f\n",a);
printf("%.1f\n",a);
printf("%.2f\n",a);
printf("%.10f\n",a);
printf("%10.2f\n",a);
printf("%-10.2f",a);
getch();
}
```

The bottom window shows the output of the program:

```
1.500000
2
1.5
1.50
1.5000000000
      1.50
1.50      -
```

The output demonstrates various formatting specifiers for floating-point numbers, including default precision, rounding, and field width. The last line shows a negative field width, resulting in right-aligned output.

The image shows two windows from the Turbo C++ (TC) IDE. The top window is the source code editor, titled 'TC', showing a C program. The code includes `<stdio.h>` and `<conio.h>`, and defines a `main` function. Inside `main`, it calls `clrscr()` to clear the screen, then prints five floating-point numbers using `printf` with the format `%.2f\n`. The numbers are 123.123, 123.888, 123.999, 123.555, and 123.554. The last line, `printf("%.2f\n", 123.554);`, is highlighted. The status bar at the top of the editor shows 'Line 10 Col 24 Insert Indent Tab Fill Unindent * E:9AM.C'. The bottom window is the output window, also titled 'TC', which displays the results of the program's execution. It shows the five numbers printed on separate lines: 123.12, 123.89, 124.00, 123.56, and 123.55. The status bar at the bottom of the output window shows '9:58 AM 13-Jul-24'. Both windows have a taskbar at the bottom with various application icons.

```
File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 24 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%.2f\n",123.123);
printf("%.2f\n",123.888);
printf("%.2f\n",123.999);
printf("%.2f\n",123.555);
printf("%.2f\n",123.554);
getch();
}
```

123.12
123.89
124.00
123.56
123.55


```
TC
Line 1    Col 20  Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("kishore\n");
printf("%s\n", "kishore");
printf("kishore\n", "naidu");
printf("Prem %s\n", "Leela");
printf("Mine %s \n", "Pyar", "Kiya");
printf("Mine %s %s\n", "Pyar", "Kiya");
printf("%s Pyar %s\n", "Kahona", "Hi");
printf("Taare %s\n", "Zameen %s", "Per");
printf("Taare %s %s\n", "Zameen %s", "Per");
getch();
}

kishore
kishore
kishore
Prem Leela
Mine Pyar
Mine Pyar Kiya
Kahona Pyar Hi
Taare Zameen %s
Taare Zameen %s Per

TC
10:06 AM
13-Jul-24
```

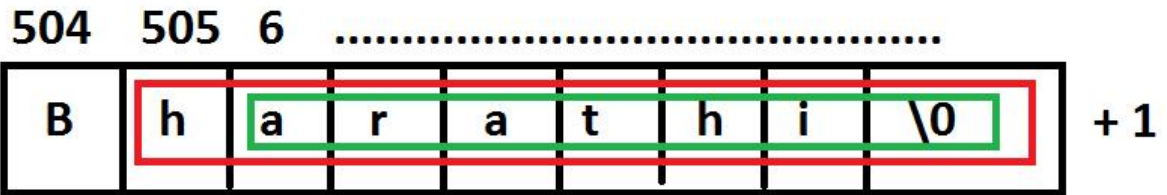


```
TC
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%10s\n", "Kishore");
printf("%-10s\n", "Kishore");
printf("%.3s\n", "Kishore");
printf("%10.3s\n", "Kishore");
printf("%-10.3s\n", "Kishore");
printf("Bharathi address is %u\n", "Bharathi");
printf("Bharathi\n"+1);
printf(1+"Bharathi\n"+1);
printf("Bharathi\n"-1); /* GrBharathi or blank */
printf("%d\n"+1, 999);
printf("%d\n"+1);
getch();
}
```

Kishore
Kishore
Kis
Kis
Kis
Bharathi address is 504
harathi
arathi
d
d

TC

Base addr



Base addr + 1

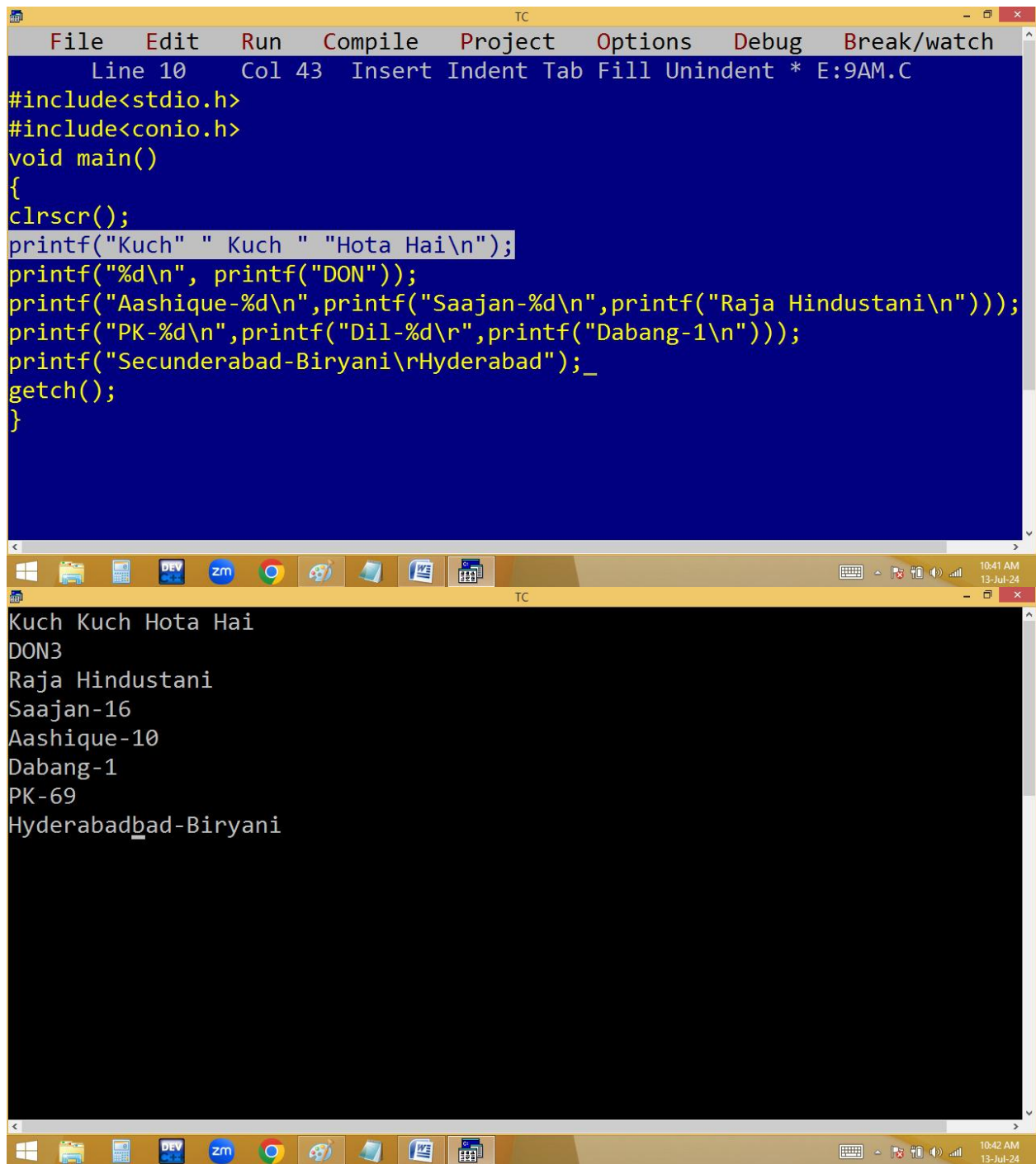
504 + 1 = 505

1+504+1=506

The screenshot shows the Turbo C++ (TC) IDE interface. The menu bar includes File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. A red error message banner at the top reads "Error: Invalid pointer addition in function main". The code editor contains the following C code:

```
#include<stdio.h>
#include<conio.h>
void main()
{
  clrscr();
  printf("Jodha" + "Akbar");
  getch();
}
```

The Windows taskbar at the bottom shows the system clock as 10:25 AM on 13-Jul-24, along with various application icons.



The image shows two windows from the Turbo C++ (TC) IDE. The top window is the source code editor, titled 'TC', showing a C program. The code includes `<stdio.h>` and `<conio.h>`, and defines a `main` function. The program uses `clrscr()` to clear the screen, followed by several `printf` statements. The first `printf` prints "Kuch " Kuch " "Hota Hai\n";. The second `printf` prints "%d\n", printf("DON3");. The third `printf` prints "Aashique-%d\n", printf("Saajan-%d\n", printf("Raja Hindustani\n"));. The fourth `printf` prints "PK-%d\n", printf("Dil-%d\n", printf("Dabang-1\n"));. The fifth `printf` prints "Secunderabad-Biryani\nHyderabad";. The program ends with `getch()`. The bottom window is the output console, also titled 'TC', showing the execution results. The output is: "Kuch Kuch Hota Hai", "DON3", "Raja Hindustani", "Saajan-16", "Aashique-10", "Dabang-1", "PK-69", and "Hyderabadbad-Biryani". The taskbar at the bottom shows the Windows Start button, taskbar icons for DEV, zm, Chrome, and other applications, and a system tray with the time 10:42 AM and date 13-Jul-24.

```
File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 43 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("Kuch" " Kuch " "Hota Hai\n");
printf("%d\n", printf("DON3"));
printf("Aashique-%d\n",printf("Saajan-%d\n",printf("Raja Hindustani\n")));
printf("PK-%d\n",printf("Dil-%d\n",printf("Dabang-1\n")));
printf("Secunderabad-Biryani\nHyderabad");_
getch();
}
```

Kuch Kuch Hota Hai
DON3
Raja Hindustani
Saajan-16
Aashique-10
Dabang-1
PK-69
Hyderabadbad-Biryani

Raja Hindustani\n

16



16

Saajan-%d\n

10



Aashique-%d\n

10

Dabang-1\n

9



Dil-%d\n

9

6



PK-%d\n

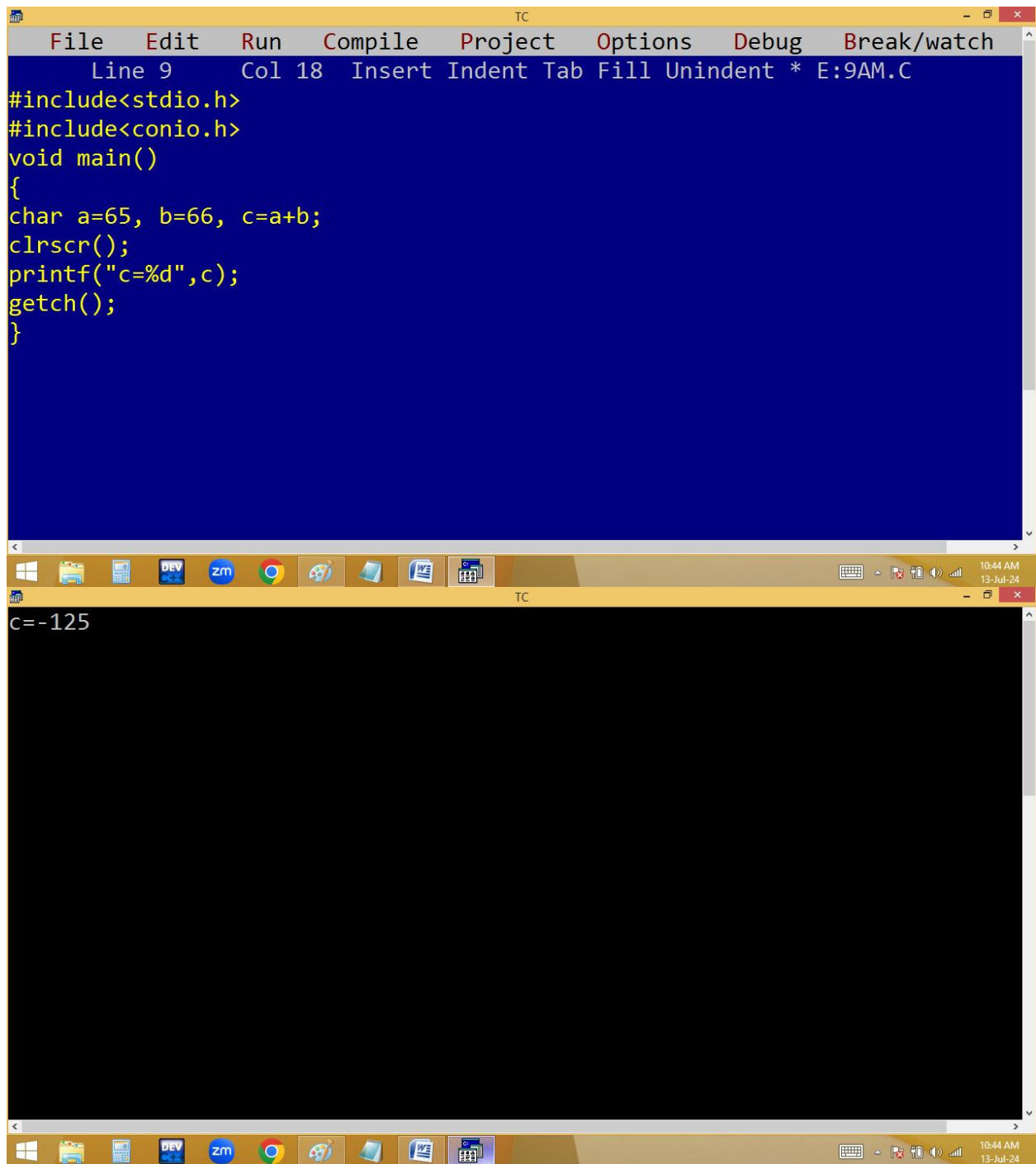
6

Dabang-1

~~Dil-9\n~~

~~Pk-6~~

~~Secunderabad-Biryani~~
~~Hyderabad~~



The image shows a screenshot of the Turbo C++ (TC) IDE. The top window is the source code editor, which has a blue background. It contains a C program that includes `<stdio.h>` and `<conio.h>`, defines a `main` function, and declares `char` variables `a`, `b`, and `c`. The program assigns values to `a` and `b`, calculates `c = a + b`, clears the screen with `clrscr()`, prints the value of `c` using `printf`, and then waits for a key press with `getch()`. The status bar at the top of the editor shows 'Line 9 Col 18' and 'Insert Indent Tab Fill Unindent * E:9AM.C'. The bottom window is the output console, which has a black background and displays the result 'c=-125'. The Windows taskbar at the bottom shows various application icons and the system clock indicating 10:44 AM on 13-Jul-24.

```
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()
{
char a=65, b=66, c=a+b;
clrscr();
printf("c=%d",c);
getch();
}
```

c=-125

256 ascii characters { signed char ==> -128 to +127
unsigned char ==> 0 to 255

a=65

b=66

c=131

256

131

- 125

| 3 |

- 128 + 3 = -125

3