

The image shows a screenshot of the Turbo C++ (TC) IDE. The top window displays a C program in a blue editor. The code includes `<stdio.h>` and `<conio.h>`, and defines a `main` function. Inside `main`, it calls `clrscr()` to clear the screen, followed by several `printf` statements with various format specifiers and arguments. The last line of code is `printf("%.5d\n", 45);`, which is currently selected. The bottom window shows the output of the program, displaying the results of each `printf` statement on a new line. The output is: `123`, `123`, `123`, `123`, `77`, `123`, `77`, `00045`, and a blank line. The Windows taskbar at the bottom shows the time as 11:25 AM and 11:26 AM on 03-Jun-22.

```
File Edit Run Compile Project Options Debug Break/watch
Line 13 Col 1 Insert Indent Tab Fill Unindent * E:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%d\n",123);
printf("%5d\n",123);
printf("%-5d\n",123);
printf("%2d\n",123);
printf("%*d\n",5,77);
printf("%$d\n",5,77);
printf("%.5d\n",45);
getch();
}
```

123  
123  
123  
123  
77  
123  
77  
00045  
\_

```
TC
#include<stdio.h>
#include<conio.h>
#include<math.h>
void main()
{
clrscr(); printf("%f\n",12.5);
printf("%.0f\n",12.5);
printf("%.1f\n",12.5);
printf("%.2f\n",12.5);
printf("%.20f\n",12.5);
printf("%10.2f\n",12.5);
printf("%-10.2f\n",12.5);
printf("%1.2f\n",1.567);
printf("%1.2f\n",1.234);
printf("%1.0f\n",1.9);
printf("%1.0f\n",1.4);
printf("%1.2f\n",floor(1.9));
printf("%1.2f\n",ceil(1.9));
getch();
}

TC
12.500000
12
12.5
12.50
12.50000000000000000000
    12.50
12.50
1.57
1.23
2
1
1.00
2.00

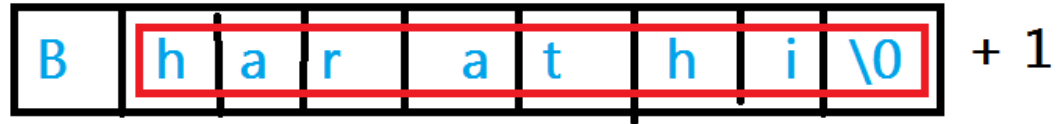
```

```
TC
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr(); printf("%s\n","Kishore");
printf("Kishore\n");
printf("%10s\n","Kishore");
printf("%-10s\n","Kishore");
printf("%.3s\n","Kishore");
printf("%10.3s\n","Kishore");
printf("Krish %c Radha\n",3);
printf("%u\n","Bharathi");
printf("Bharathi\n"+1);
printf(1+"Bharathi\n"+1);
printf("Bharathi\n"+8);
printf("Bharathi\n"-1); /* blank or GrBharathi */
printf("%d\n"+1,899);
printf("%d"+1);
getch();
}

Kishore
Kishore
    Kishore
Kishore
Kis
    Kis
Krish ♥ Radha
504
harathi
arathi

d
d_

TC
11:55 AM
03-Jun-22
```

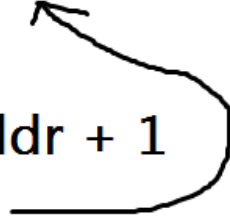


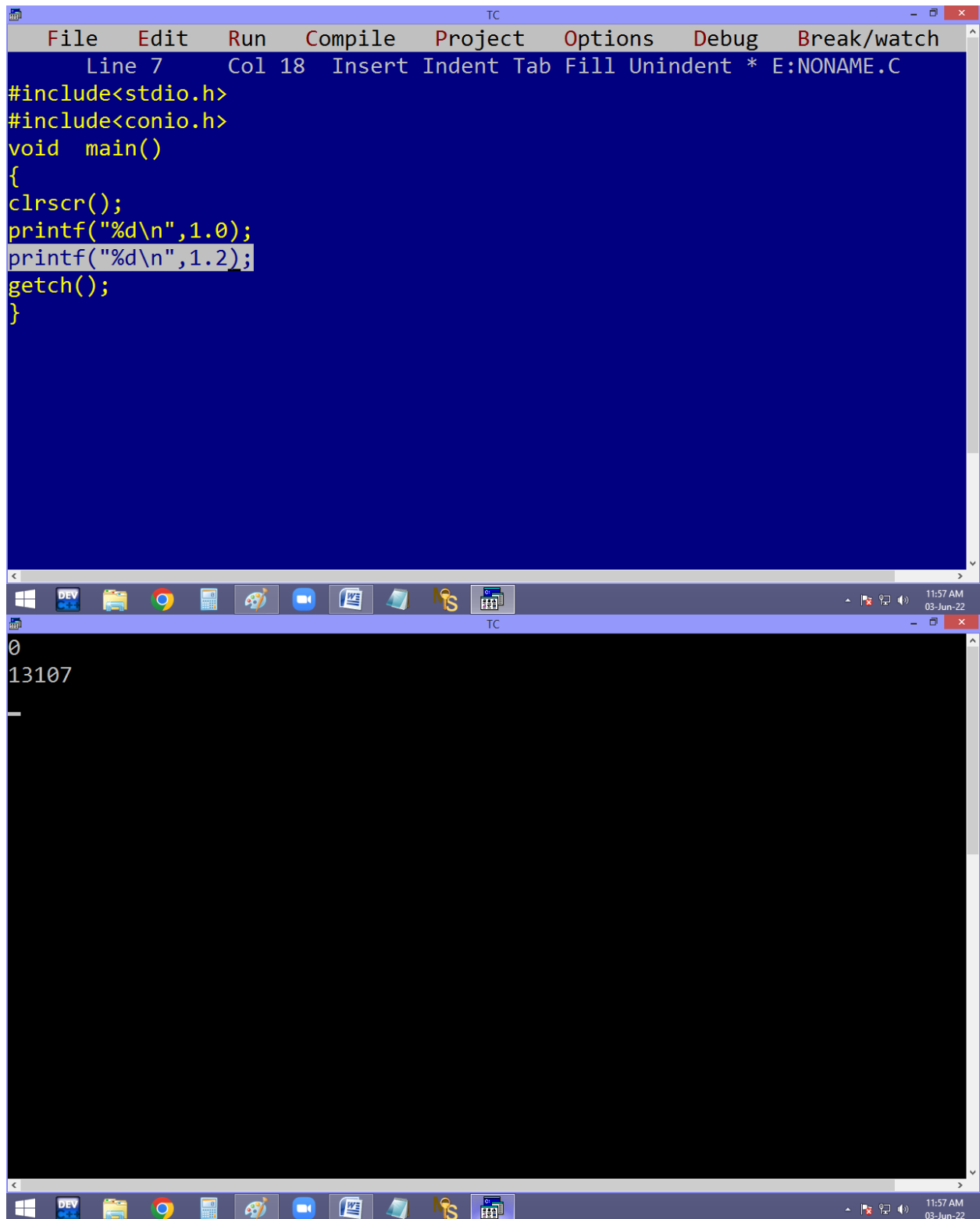
504 5 6 .....Addr



base addr + 1

505





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 7 Col 18 Insert Indent Tab Fill Unindent * E:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%d\n",1.0);
printf("%d\n",1.2);
getch();
}
```

The bottom window shows the output of the program, which is:

```
0
13107
```

The taskbar at the bottom of the screen shows various application icons, including Windows, DEV, File Explorer, Google Chrome, Calculator, Paint, and others. The system clock in the bottom right corner indicates the time is 11:57 AM on 03-Jun-22.

TC

File Edit Run Compile Project Options Debug Break/watch

Line 9 Col 20 Insert Indent Tab Fill Unindent \* E:NONAME.C

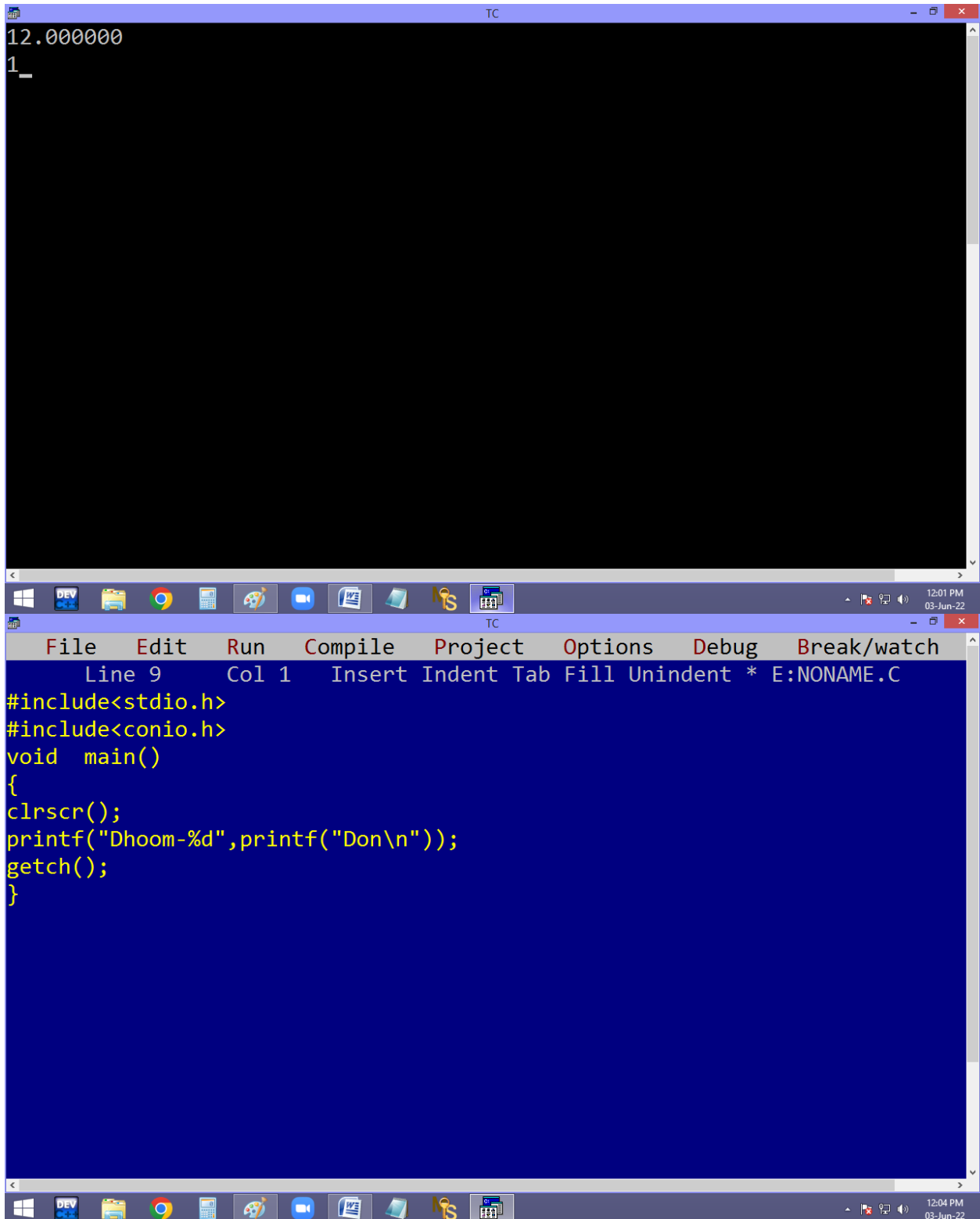
```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%f",12);
getch();
}
/* runtime error */
```

TC

File Edit Run Compile Project Options Debug Break/watch

Line 10 Col 1 Insert Indent Tab Fill Unindent \* E:NONAME.C

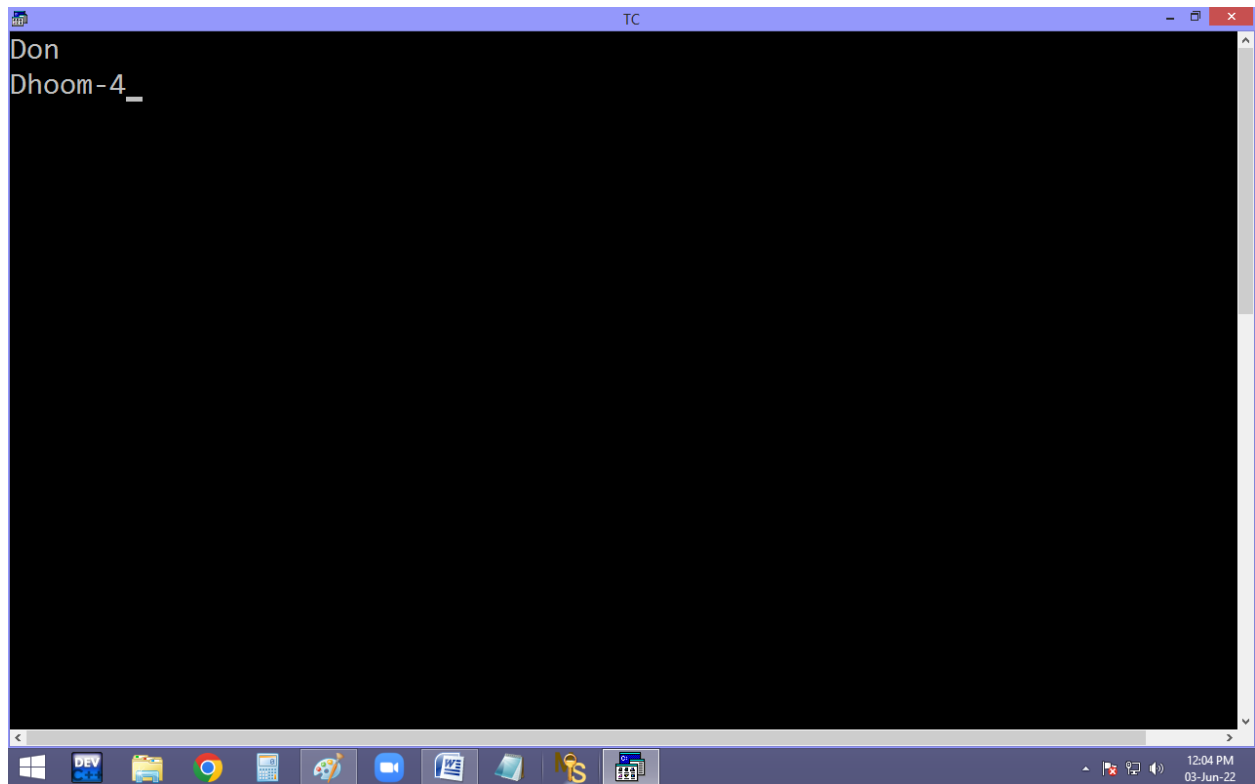
```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%f\n",(float)12); /* explicit Type casting */
printf("%d",(int)1.2);
getch();
}
```



The image shows a screenshot of the Turbo C++ (TC) IDE. The top window is the console, which displays the output of a program: "12.000000" followed by a newline and "1\_". The bottom window is the source code editor, showing a C program named "E:NONAME.C". The code includes headers for stdio and conio, and defines a main function that clears the screen, prints "Dhoom-%d", prints "Don\n", and gets a character. The IDE's menu bar includes File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. The status bar at the bottom shows the time as 12:04 PM on 03-Jun-22.

```
12.000000
1_

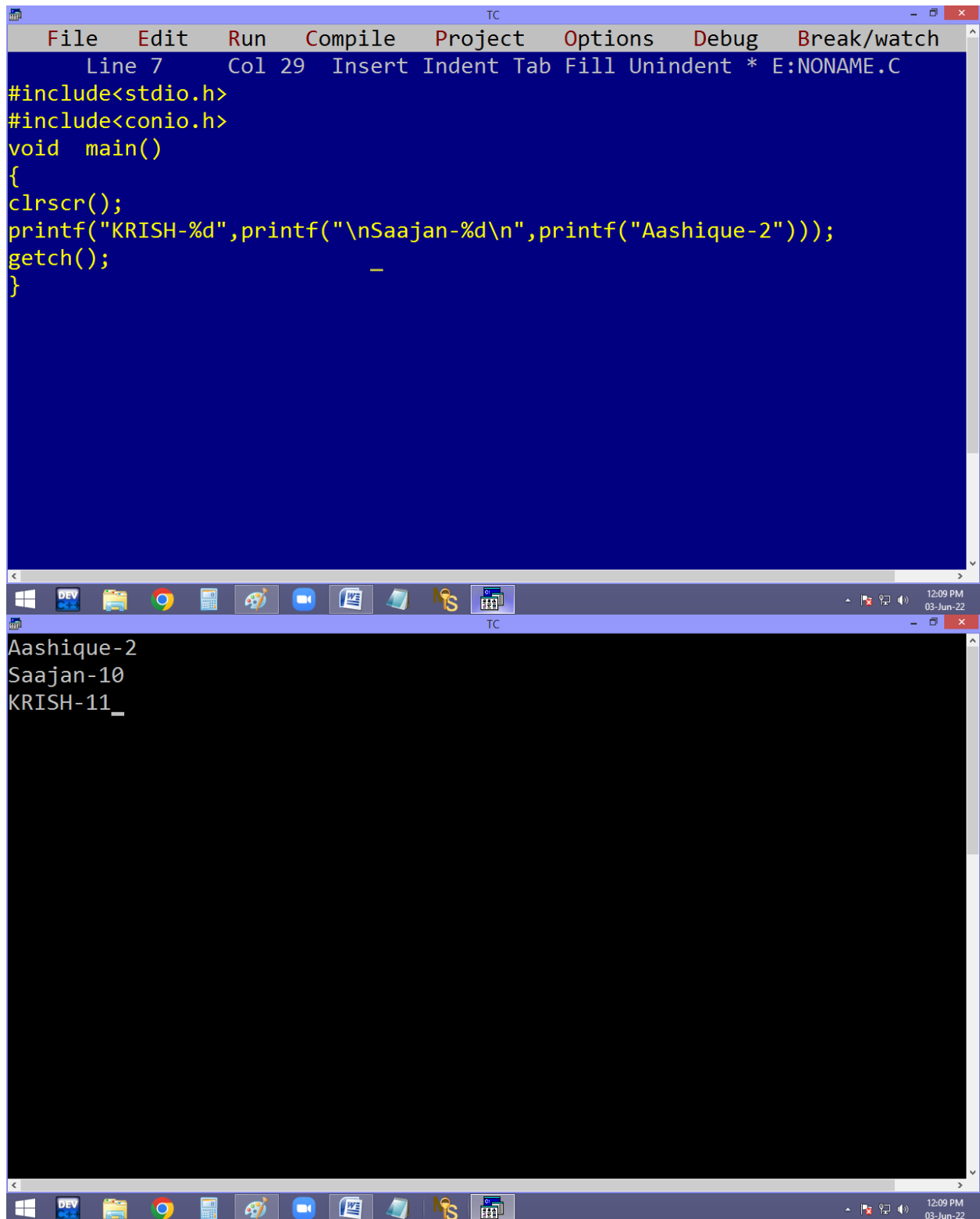
File Edit Run Compile Project Options Debug Break/watch
Line 9 Col 1 Insert Indent Tab Fill Unindent * E:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("Dhoom-%d",printf("Don\n"));
getch();
}
```



p("Dhoom-%d", pr("DON\n"));

Hand-drawn red annotations on the code snippet. A red horizontal line is drawn under the "%d" in the first string. A red arrow points from the underlined "%d" to the underlined "DON\n" in the second string. A red "4" is written above the "%d" and another red "4" is written above the "DON\n".





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

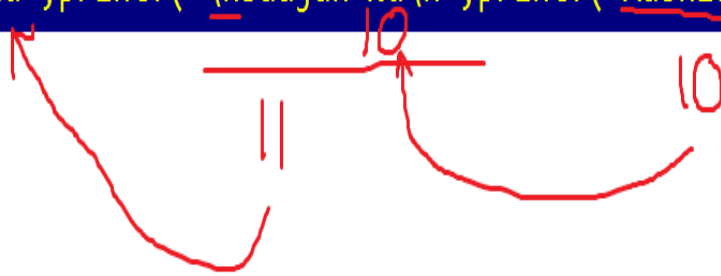
```
File Edit Run Compile Project Options Debug Break/watch
Line 7 Col 29 Insert Indent Tab Fill Unindent * E:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("KRISH-%d",printf("\nSaajan-%d\n",printf("Aashique-2")));
getch();
}
```

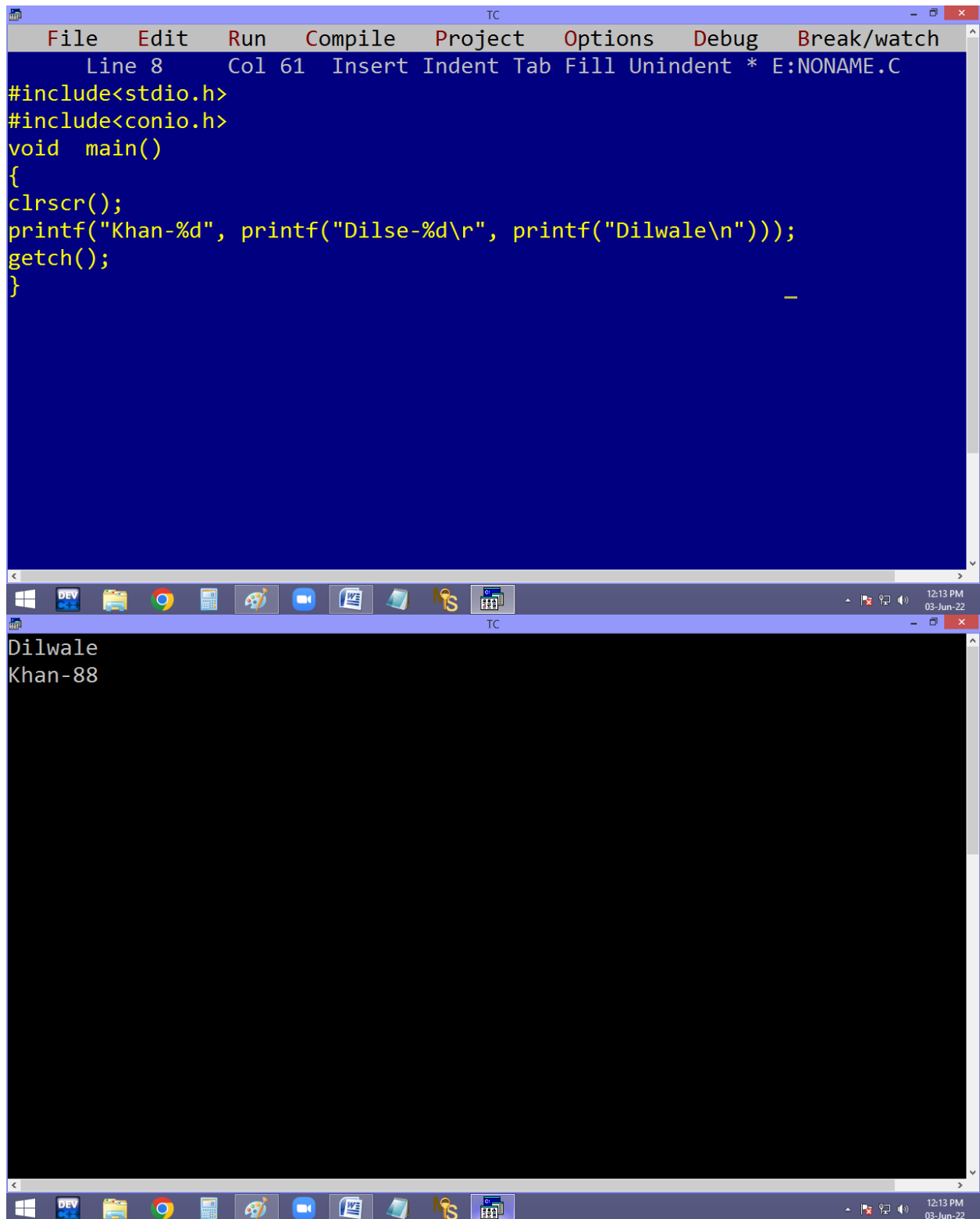
The bottom window shows the output of the program:

```
Aashique-2
Saajan-10
KRISH-11_
```

The Windows taskbar at the bottom shows the time as 12:09 PM on 03-Jun-22.

```
printf("KRISH-%d",printf("\nSaajan-%d\n",printf("Aashique-2")));
```





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 displays a C program with the following code:

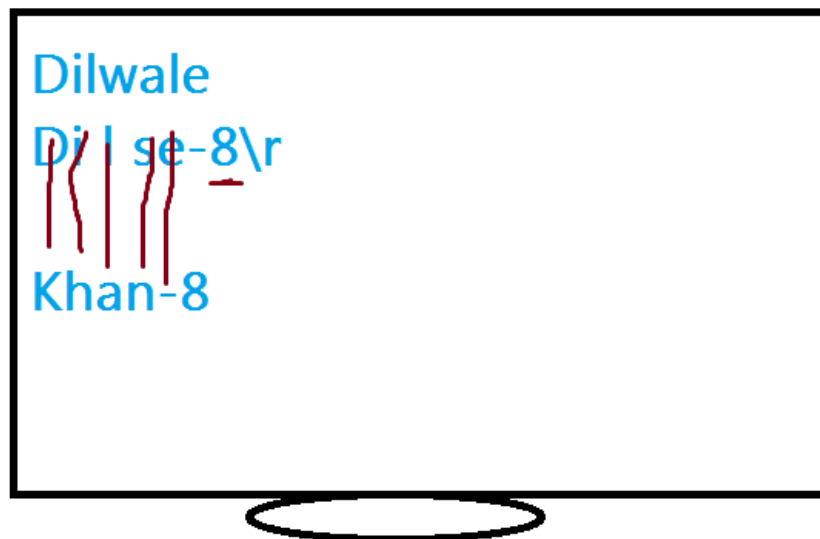
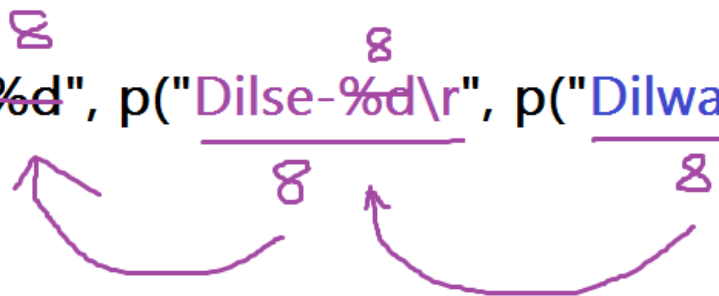
```
File Edit Run Compile Project Options Debug Break/watch
Line 8 Col 61 Insert Indent Tab Fill Unindent * E:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("Khan-%d", printf("Dilse-%d\r", printf("Dilwale\n")));
getch();
}
```

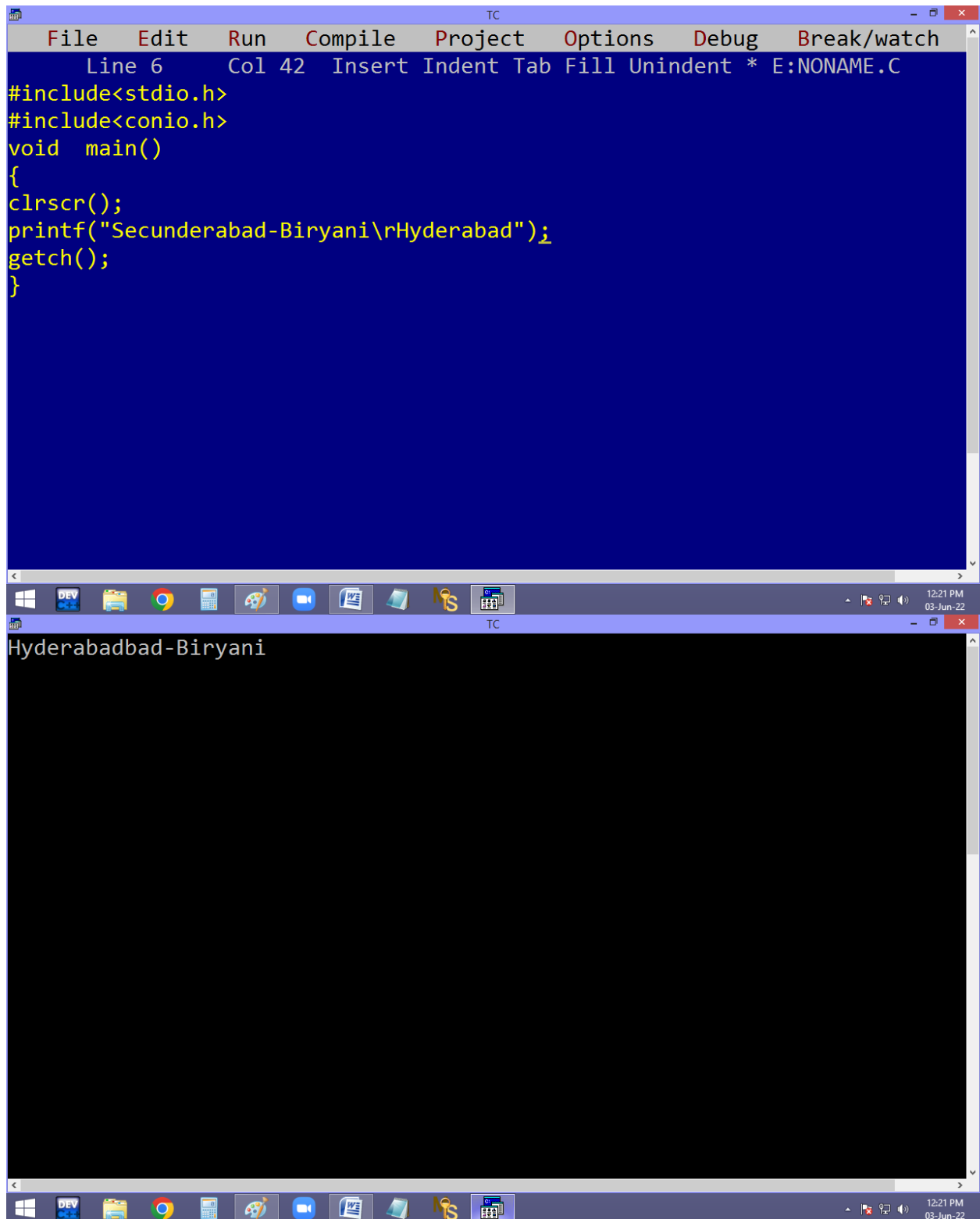
The bottom window is the output console, which has a black background. It shows the output of the program:

```
Dilwale
Khan-88
```

The Windows taskbar is visible at the bottom of the screen, showing various application icons and the system clock indicating 12:13 PM on 03-Jun-22.

p("Khan-%d", p("Dilse-%d\r", p("Dilwale\n"))));





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

```
File Edit Run Compile Project Options Debug Break/watch
Line 6 Col 42 Insert Indent Tab Fill Unindent * E:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("Secunderabad-Biryani\rHyderabad");
getch();
}
```

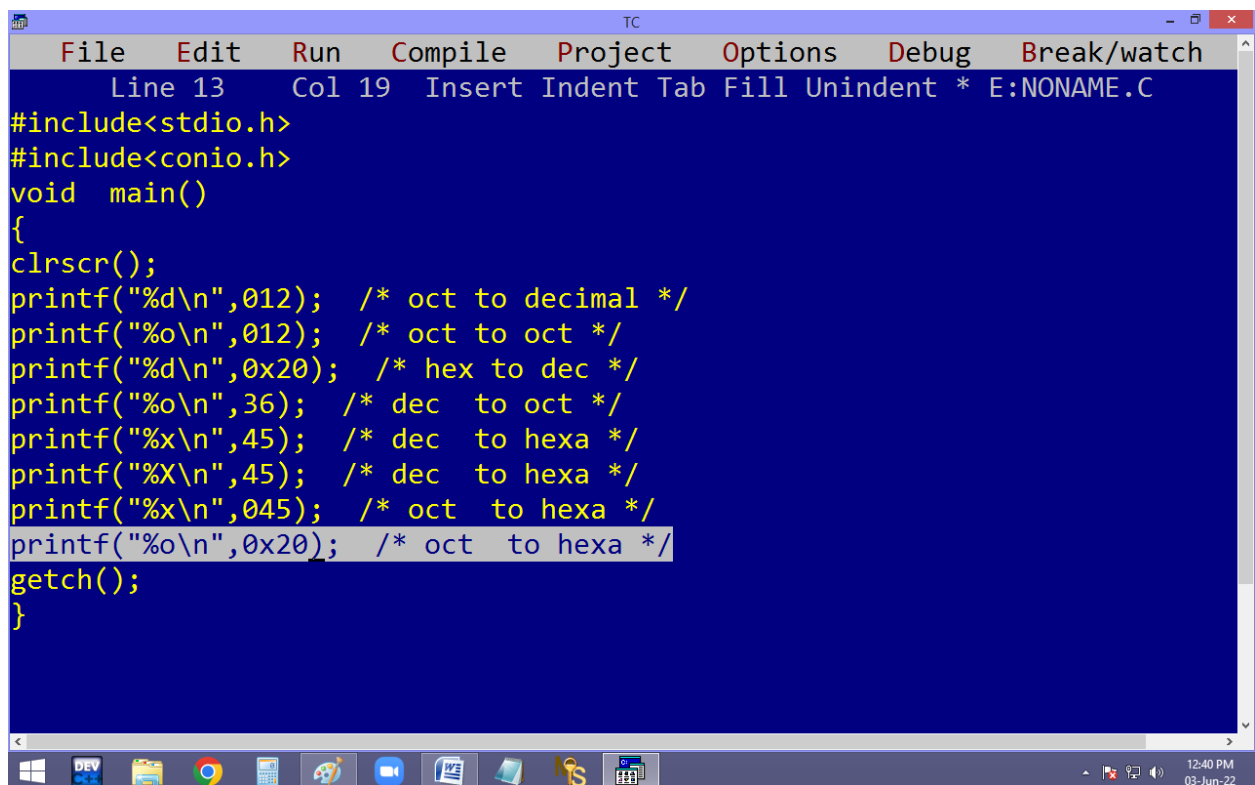
The bottom window is the output console, which has a black background and displays the output of the program:

```
Hyderabadbad-Biryani
```

The Windows taskbar is visible at the bottom of the screen, showing various application icons and the system clock indicating 12:21 PM on 03-Jun-22.

# Secunderabad-Biryani

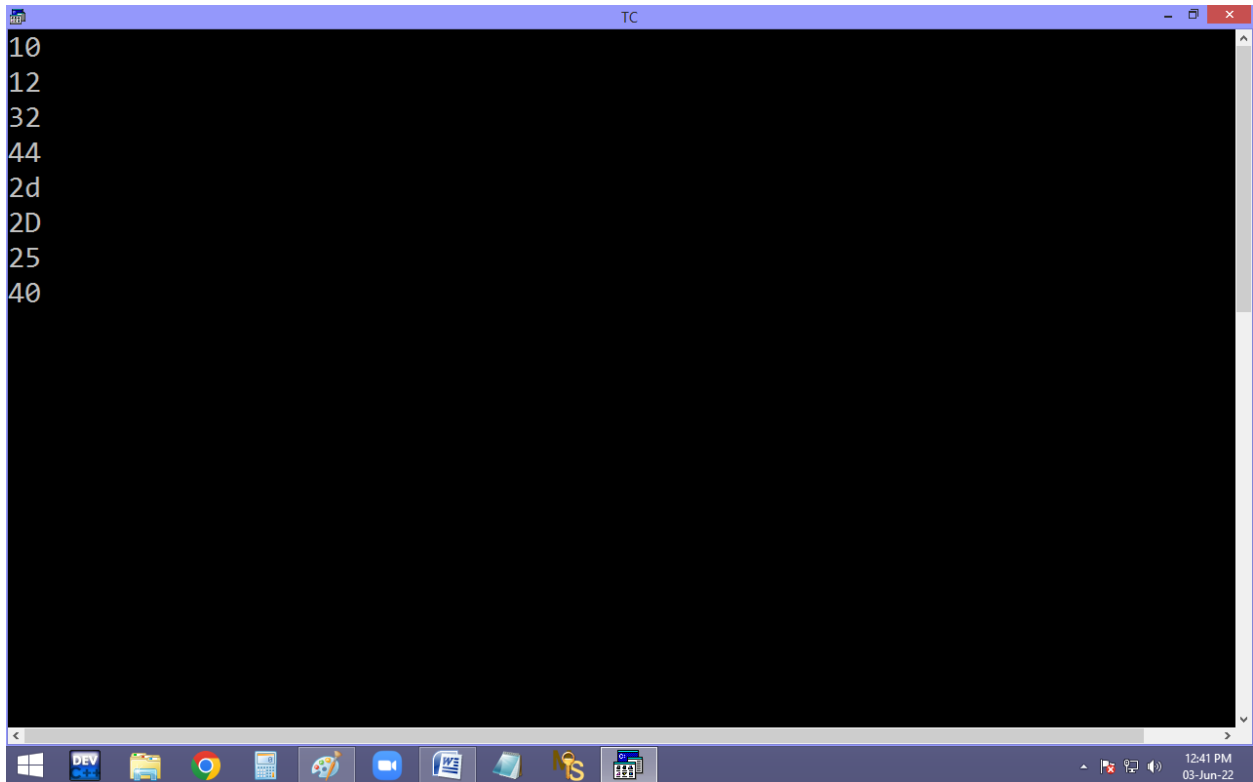
## Hyderabad



The image shows a screenshot of a Turbo C++ IDE window titled 'TC'. The menu bar includes File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. The status bar at the top indicates 'Line 13 Col 19 Insert Indent Tab Fill Unindent \* E:NONAME.C'. The code in the editor is as follows:

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%d\n",012); /* oct to decimal */
printf("%o\n",012); /* oct to oct */
printf("%d\n",0x20); /* hex to dec */
printf("%o\n",36); /* dec to oct */
printf("%x\n",45); /* dec to hexa */
printf("%X\n",45); /* dec to hexa */
printf("%x\n",045); /* oct to hexa */
printf("%o\n",0x20); /* oct to hexa */
getch();
}
```

The taskbar at the bottom shows various icons including Windows, DEV C++, File Explorer, Google Chrome, Calculator, Paint, and others. The system clock in the bottom right corner shows '12:40 PM 03-Jun-22'.



oct to dec

$$\begin{array}{r}
 014 \\
 \swarrow \quad \searrow \\
 8 \times 1 + 8 \times 2 \\
 \hline
 8 + 16 = 24
 \end{array}$$

hexa to decimal

$$\begin{array}{r}
 0x20 \\
 \swarrow \quad \searrow \\
 16 \times 2 + 16 \times 0 \\
 \hline
 32 + 0 = 32
 \end{array}$$

dec to oct

$$\begin{array}{r}
 8 \overline{)36} \\
 \underline{4-4} \checkmark
 \end{array}$$

$$\begin{array}{r}
 45 \\
 \swarrow \quad \searrow \\
 8 \times 4 + 8 \times 5 \\
 \hline
 32 + 40 = 72
 \end{array}$$

$$\begin{array}{r}
 16 \overline{)37} \\
 \underline{2-5} \checkmark
 \end{array}$$

$$\begin{array}{r}
 16 \overline{)45} \\
 \underline{2-13}
 \end{array}$$

a	b	c	d	e	f
0-9	10	11	12	13	14

$$\begin{array}{r}
 0x20 \\
 \swarrow \quad \searrow \\
 16 \times 2 + 16 \times 0 \\
 \hline
 32 + 0 = 32
 \end{array}$$

$$\begin{array}{r}
 8 \overline{)32} \\
 \underline{4-0} \checkmark
 \end{array}$$