

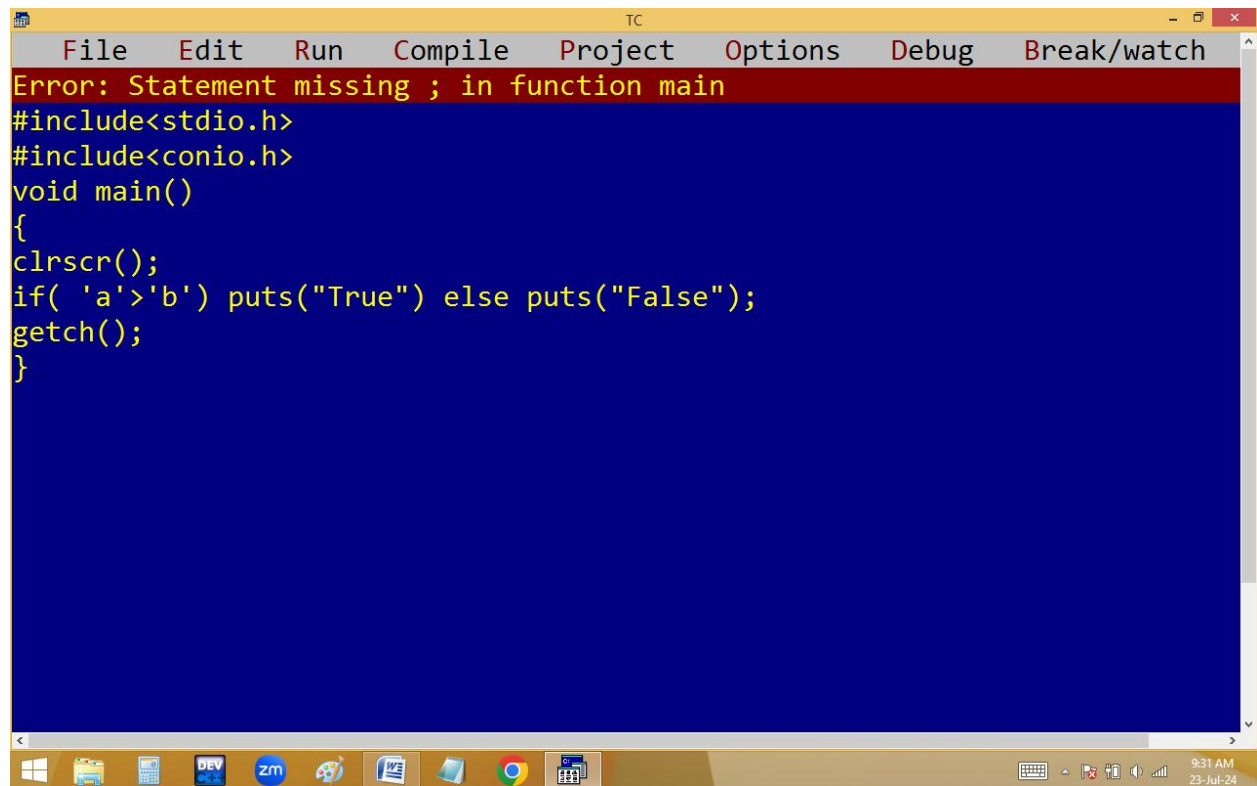
The image shows a screenshot of the Turbo C++ (TC) IDE. The top window displays a C program with the following code:

```
File Edit Run Compile Project Options Debug Break/watch
Line 13 Col 13 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
float a=1.9;
double b=1.9;
clrscr();
printf("%.10f, %.10lf\n",a,b);
a=1.1; b=1.1;
printf("%.10f, %.10lf\n",a,b);
a=1.0; b=1.0;
printf("%.10f, %.10lf\n",a,b);
a=1.5; b=1.5;
printf("%.10f, %.10lf\n",a,b);
getch();
}
```

The bottom window shows the output of the program:

```
1.89999999762, 1.90000000000
1.10000000238, 1.10000000000
1.00000000000, 1.00000000000
1.50000000000, 1.50000000000
```

The IDE interface includes a menu bar at the top with options: File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. The status bar at the bottom right indicates the time as 9:30 AM on 23-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". A red error message banner at the top reads "Error: Statement missing ; in function main". The code editor has a blue background and contains the following C code:

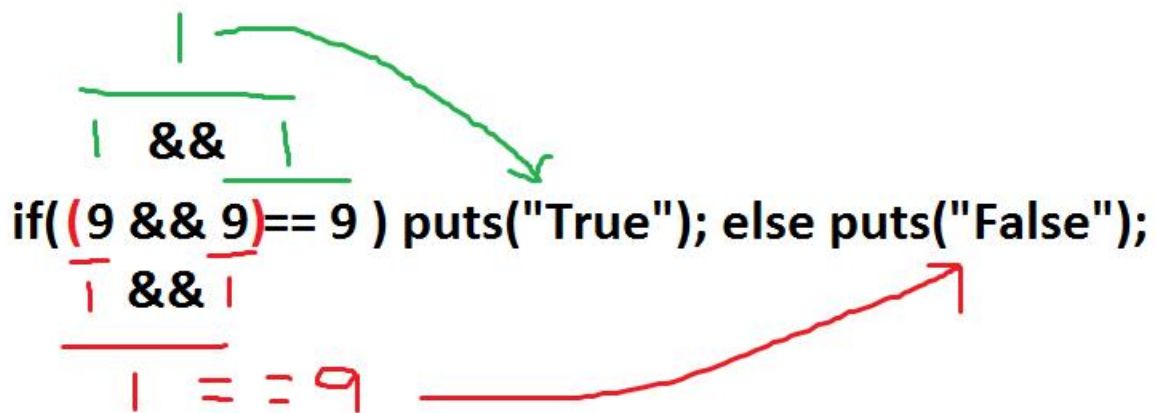
```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 'a'>'b') puts("True") else puts("False");
getch();
}
```

The Windows taskbar is visible at the bottom, showing icons for Windows, File Explorer, DEV, zm, a game, Word, and Chrome. The system tray on the right shows the time as 9:31 AM and the date as 23-Jul-24.

```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 9 Col 10 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 'a'>'A'); else puts("False"); puts("Bye");
getch();
}
/* Bye */
```

```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 8 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if(sizeof(float)==sizeof(1.5))puts("True");else puts("False");
if(sizeof(float)==sizeof(1.5f))puts("True");else puts("False");
getch();
}
/* False
True */
```

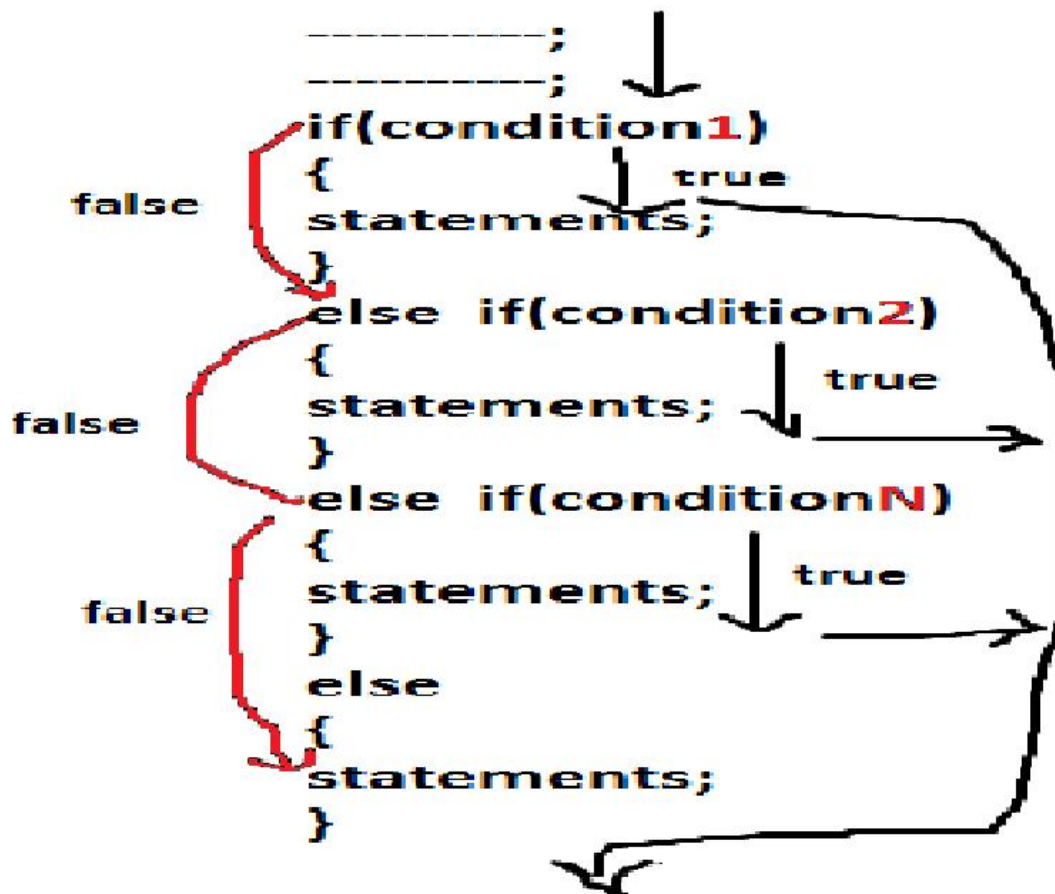
```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 9 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if(9 && 9 == 9)puts("True");else puts("False");
if((9 && 9) == 9)puts("True");else puts("False");
getch();
}
/* True
False_*/
```



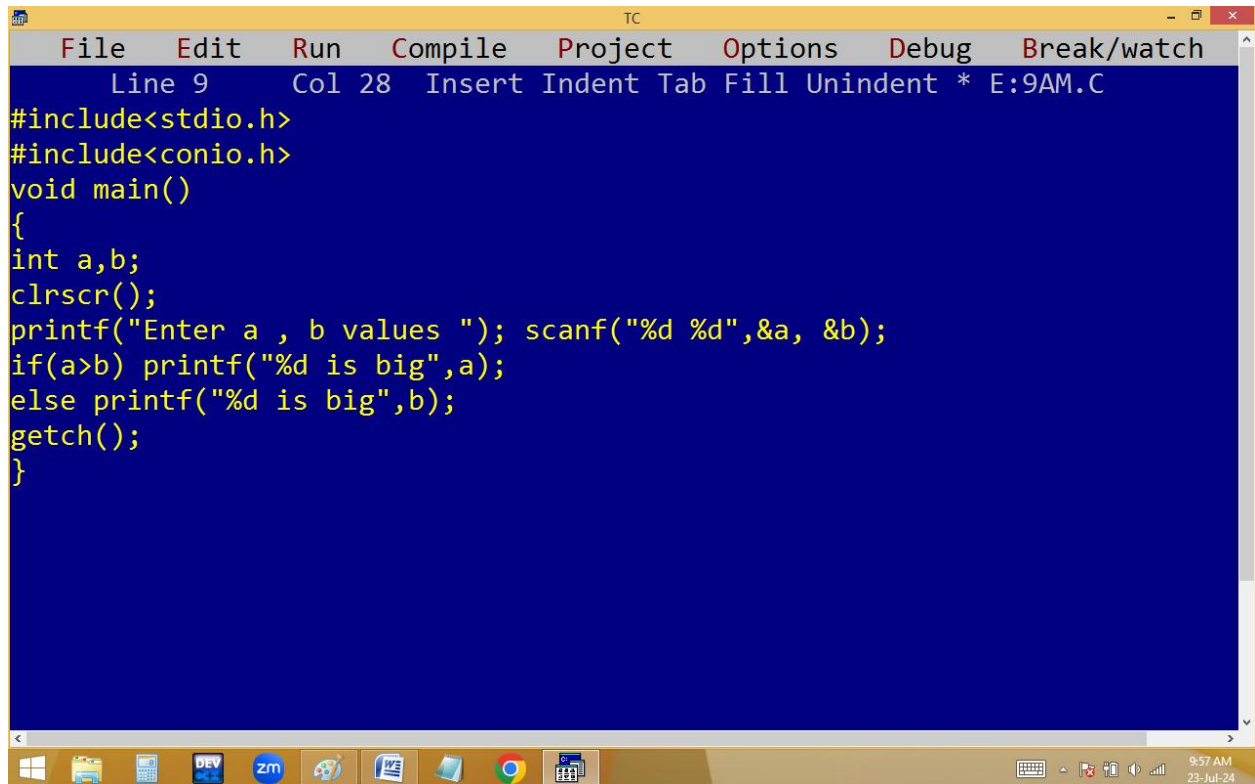
## If...else if / ladder if:

When the program contain 3 or more options and user have to select 1 then go for if else if ladder. In if..else if the conditions are tested

from top to bottom one by one like the ladder steps and any one condition is true then statements in that if block are executed and program execution jumped to outside the if series. If no condition true then statements in else are executed. Here else is optional.



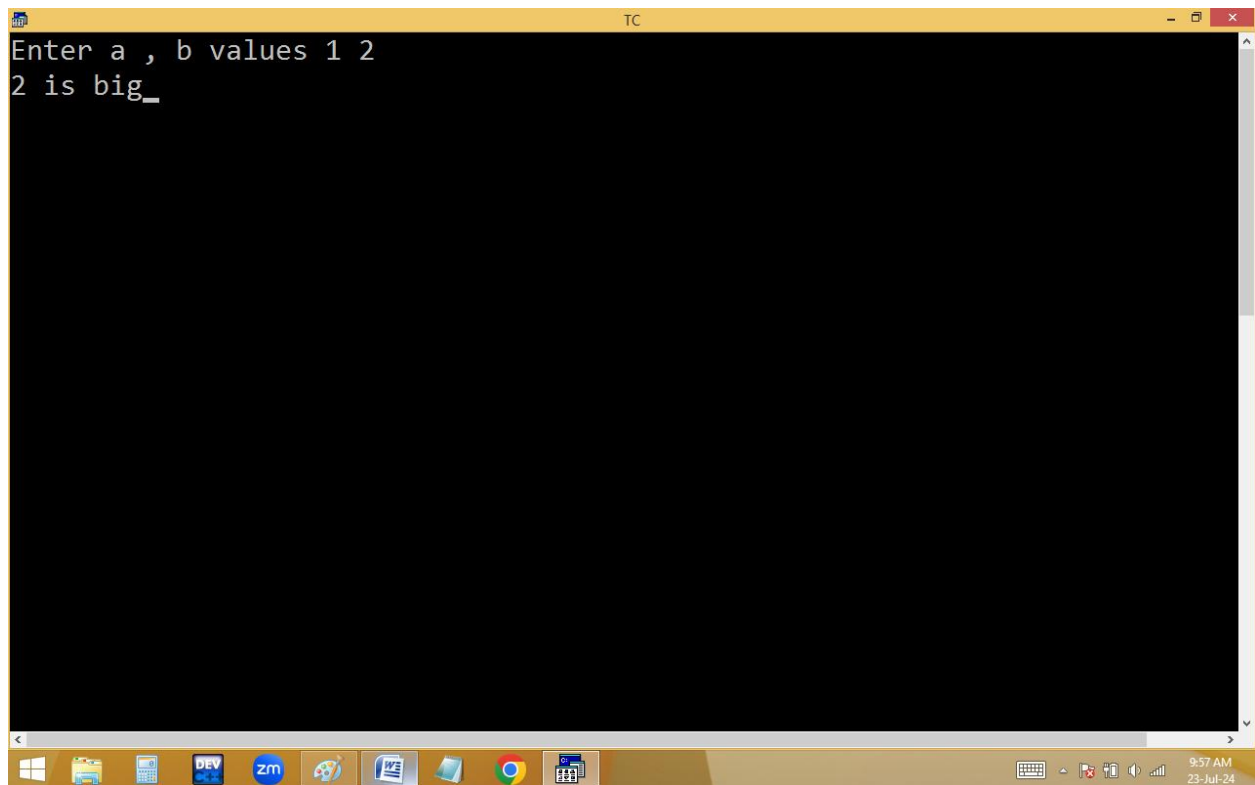
Finding max in 2 numbers.



The screenshot shows the Turbo C++ (TC) IDE with a blue background. The menu bar includes File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. The status bar at the top indicates 'Line 9 Col 28 Insert Indent Tab Fill Unindent \* E:9AM.C'. The code in the editor is as follows:

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a,b;
clrscr();
printf("Enter a , b values "); scanf("%d %d",&a, &b);
if(a>b) printf("%d is big",a);
else printf("%d is big",b);
getch();
}
```

The Windows taskbar at the bottom shows icons for Windows, File Explorer, DEV, zm, a game controller, a document, Google Chrome, and a calendar. The system tray on the right shows the time as 9:57 AM on 23-Jul-24.

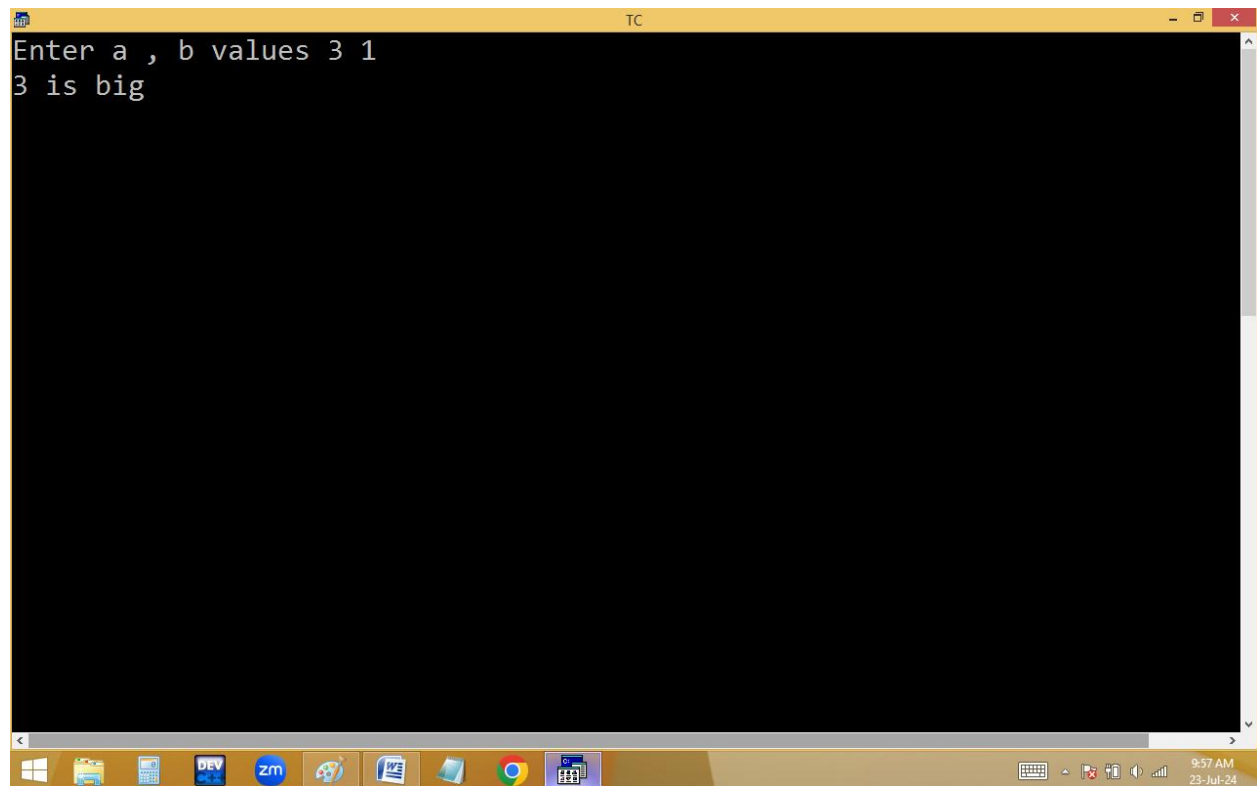


The screenshot shows the Turbo C++ (TC) IDE with a black background. The output window displays the following text:

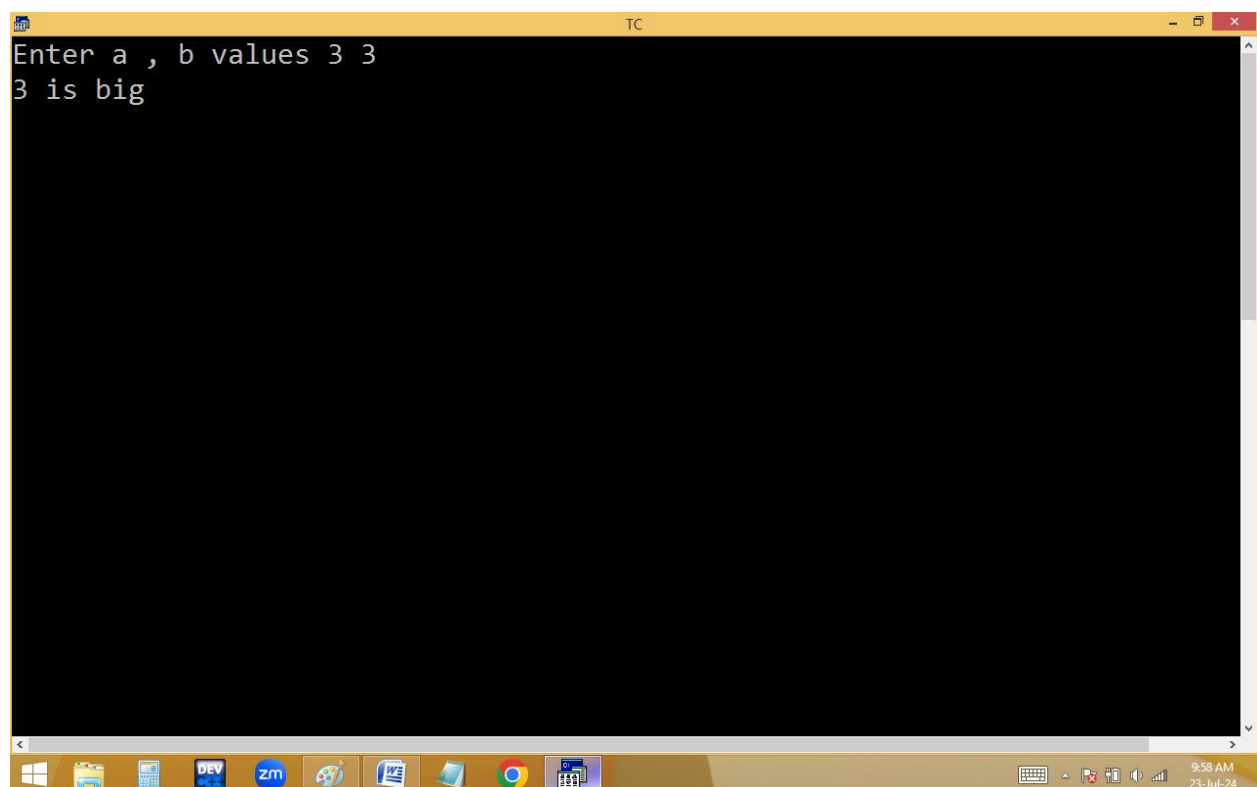
```
Enter a , b values 1 2
2 is big_
```

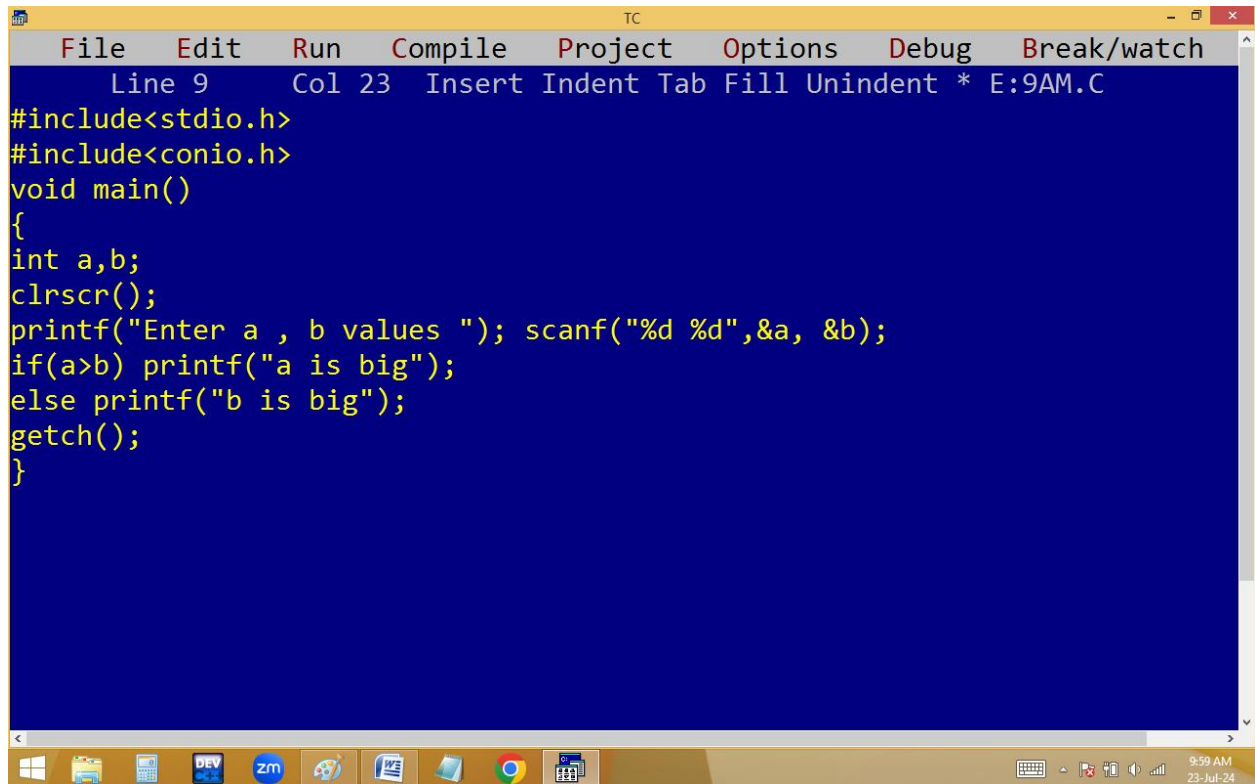
The Windows taskbar at the bottom is identical to the first screenshot, showing the same icons and system tray information (9:57 AM on 23-Jul-24).

```
TC
Enter a , b values 3 1
3 is big
```

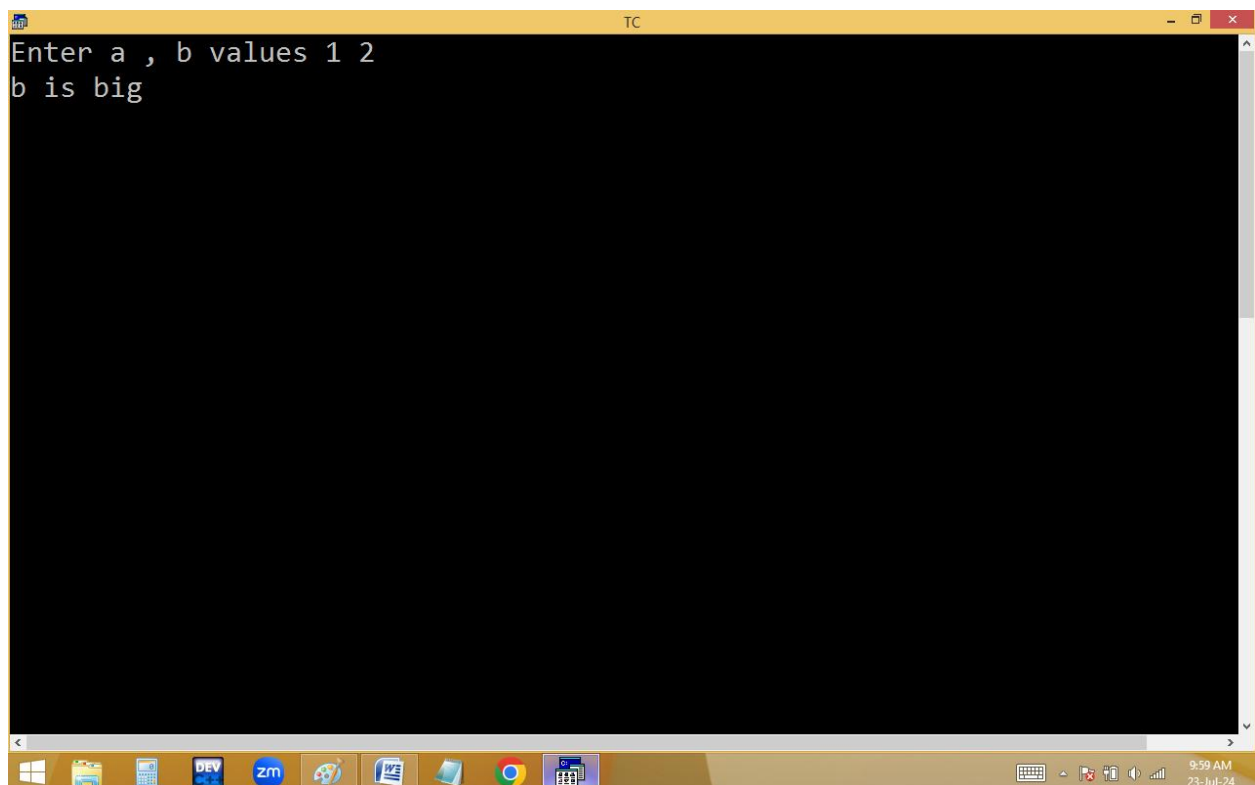


```
TC
Enter a , b values 3 3
3 is big
```



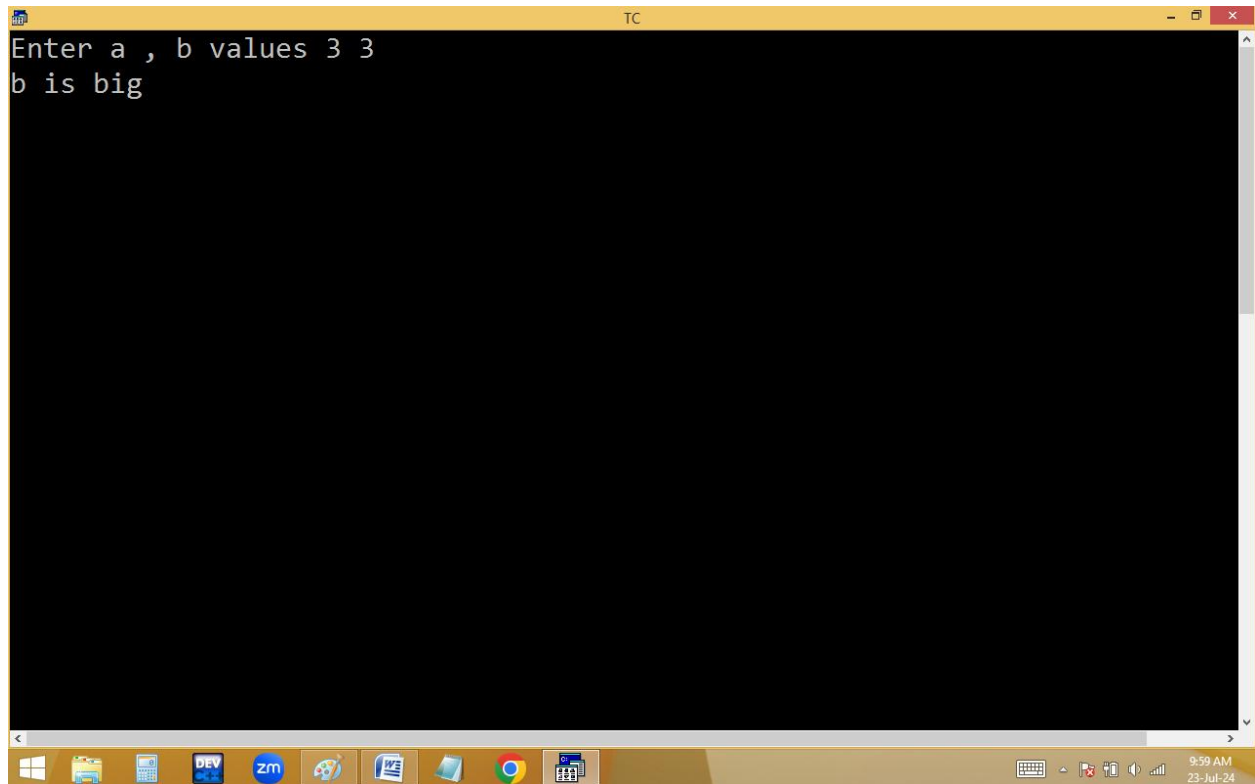


```
File Edit Run Compile Project Options Debug Break/watch
Line 9 Col 23 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a,b;
clrscr();
printf("Enter a , b values "); scanf("%d %d",&a, &b);
if(a>b) printf("a is big");
else printf("b is big");
getch();
}
```



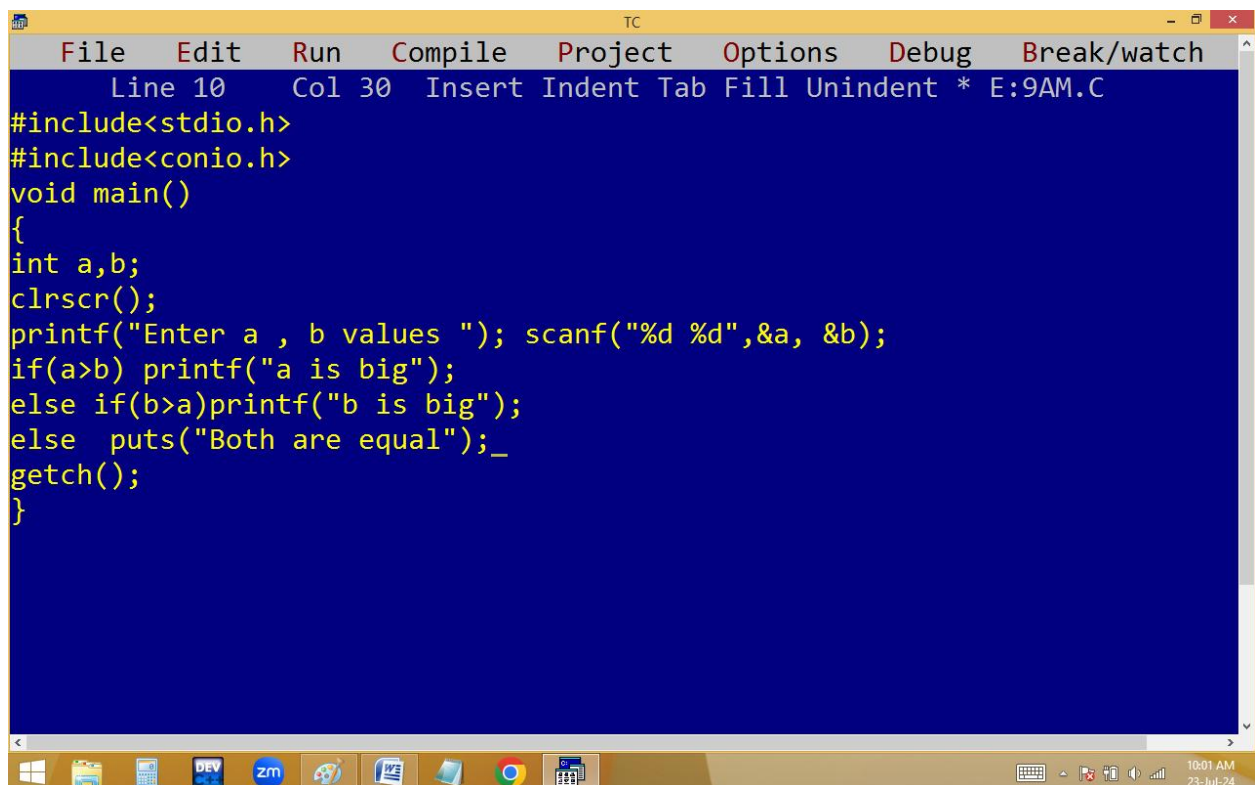
```
Enter a , b values 1 2
b is big
```





A screenshot of a Turbo C++ (TC) console window. The window has a yellow title bar with the text "TC" and standard window controls. The black console area displays the text "Enter a , b values 3 3" on the first line and "b is big" on the second line. The Windows taskbar is visible at the bottom, showing various application icons and a system clock indicating 9:59 AM on 23-Jul-24.

```
Enter a , b values 3 3
b is big
```

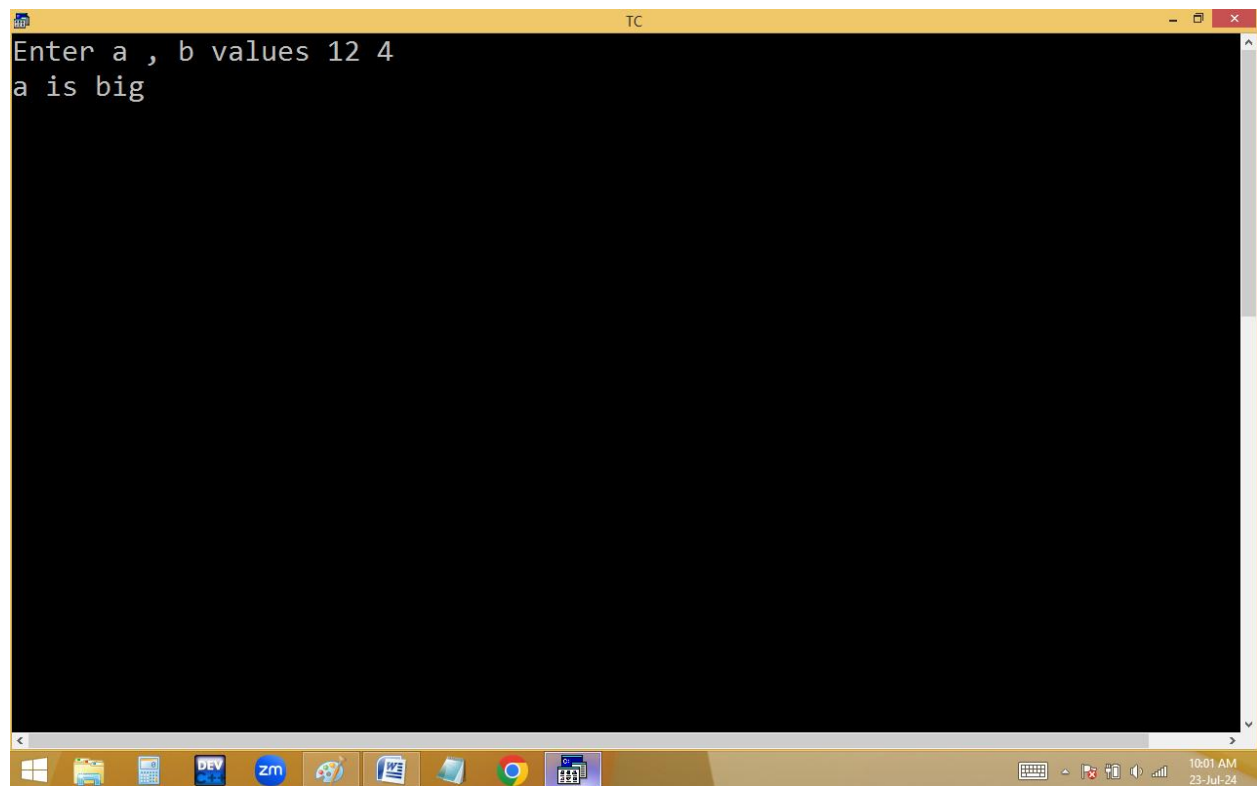


A screenshot of a Turbo C++ (TC) code editor window. The window has a yellow title bar with "TC" and standard window controls. Below the title bar is a menu bar with options: File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. A status bar at the top of the code area shows "Line 10 Col 30 Insert Indent Tab Fill Unindent \* E:9AM.C". The code is written in yellow text on a blue background. The code includes headers for stdio.h and conio.h, defines a main function, declares variables a and b, clears the screen, prompts for input, compares the values, and prints the result. The Windows taskbar is visible at the bottom, showing various application icons and a system clock indicating 10:01 AM on 23-Jul-24.

```
File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 30 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a,b;
clrscr();
printf("Enter a , b values "); scanf("%d %d",&a, &b);
if(a>b) printf("a is big");
else if(b>a)printf("b is big");
else puts("Both are equal");_
getch();
}
```

```
TC
Enter a , b values 3 3
Both are equal
```

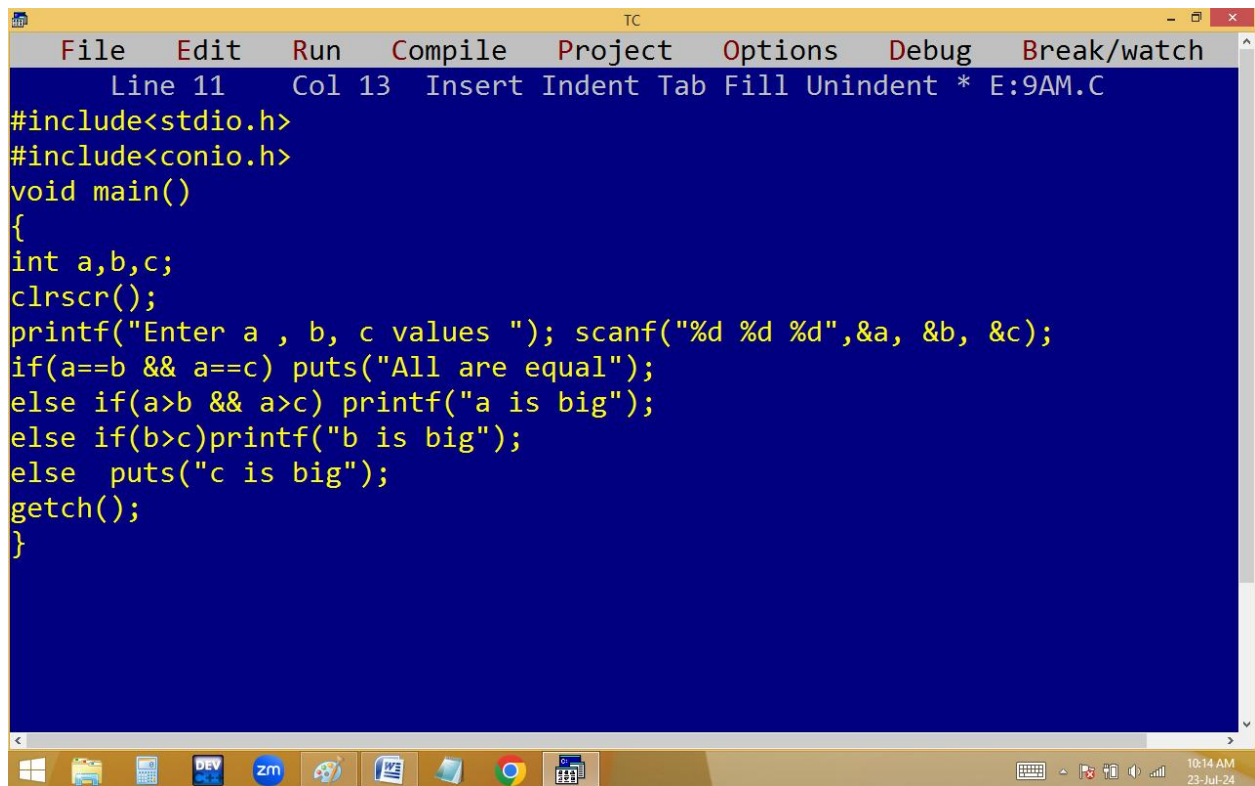
```
TC
Enter a , b values 9 3
a is big_
```



```
Enter a , b values 12 4
a is big
```

The screenshot shows a Turbo C++ (TC) window with a yellow title bar. The main window is black with white text. The text 'Enter a , b values 12 4' is on the first line, and 'a is big' is on the second line. The Windows taskbar is visible at the bottom, showing various icons including the Start button, File Explorer, Calculator, DEV, zm, a game controller, a document, a folder, Google Chrome, and a calendar. The system tray on the right shows the time as 10:01 AM and the date as 23-Jul-24.

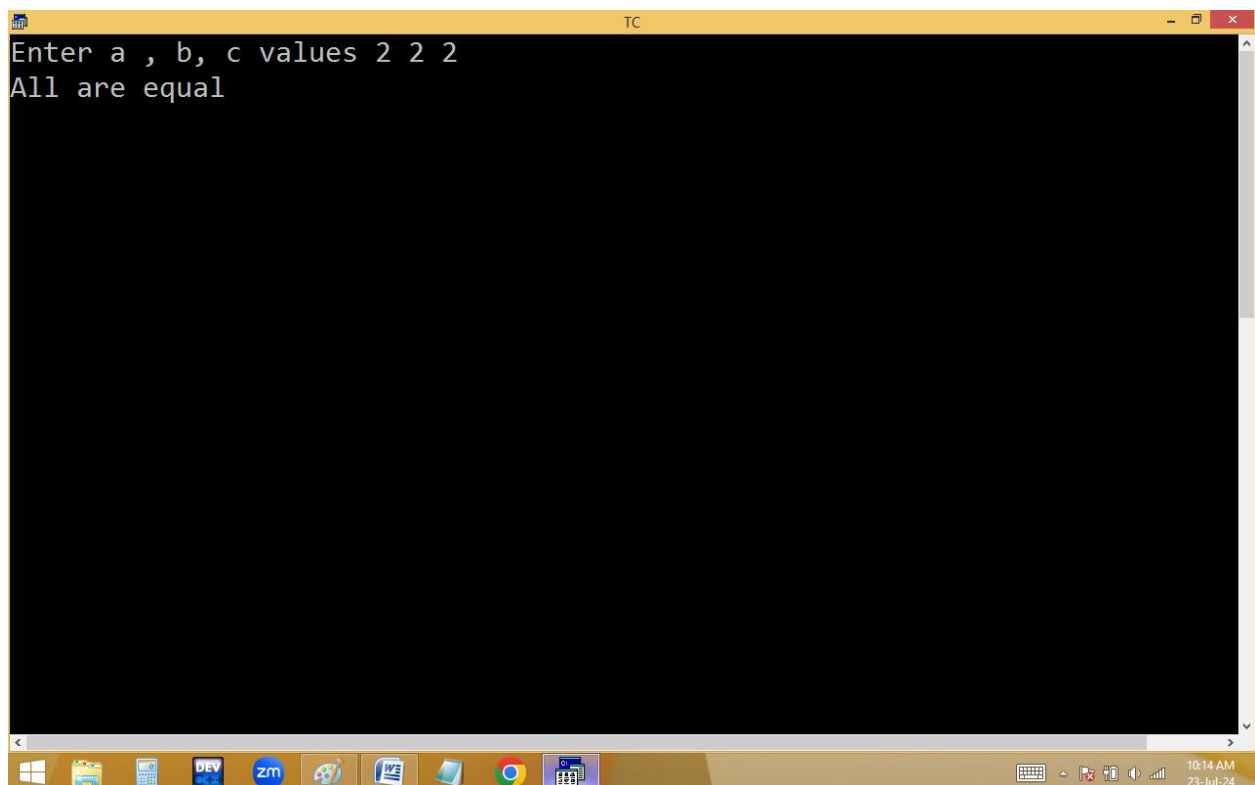
**Find the max in 3 numbers.**



The screenshot shows the Turbo C++ (TC) IDE with a menu bar (File, Edit, Run, Compile, Project, Options, Debug, Break/watch) and a status bar (Line 11, Col 13, Insert, Indent, Tab, Fill, Unindent, \* E:9AM.C). The code in the editor is as follows:

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a,b,c;
clrscr();
printf("Enter a , b, c values "); scanf("%d %d %d",&a, &b, &c);
if(a==b && a==c) puts("All are equal");
else if(a>b && a>c) printf("a is big");
else if(b>c)printf("b is big");
else puts("c is big");
getch();
}
```

The Windows taskbar at the bottom shows icons for Windows, File Explorer, Calculator, DEV C++, ZOOM, Paint, Word, and Chrome, along with system tray icons for keyboard, network, and volume, and a clock showing 10:14 AM on 23-Jul-24.

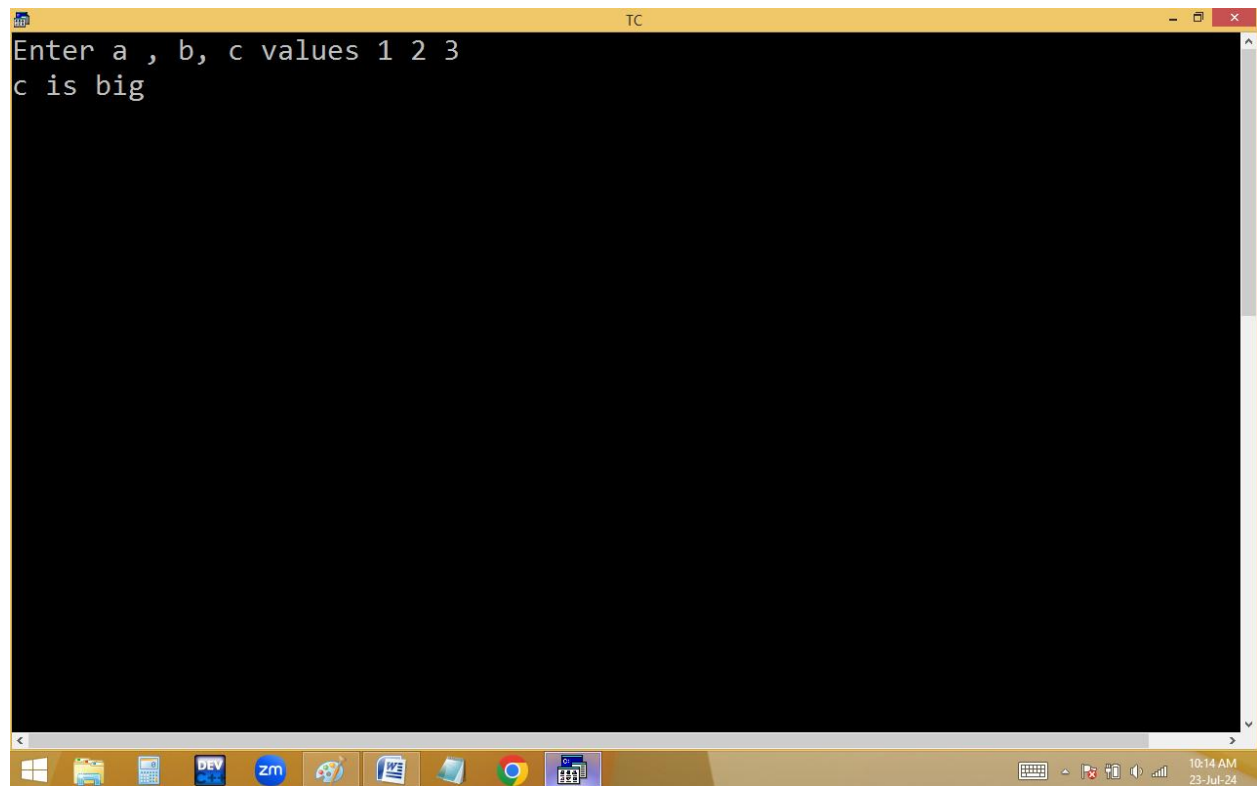


The screenshot shows the Turbo C++ (TC) IDE with the same menu bar and status bar as the first image. The output window displays the following text:

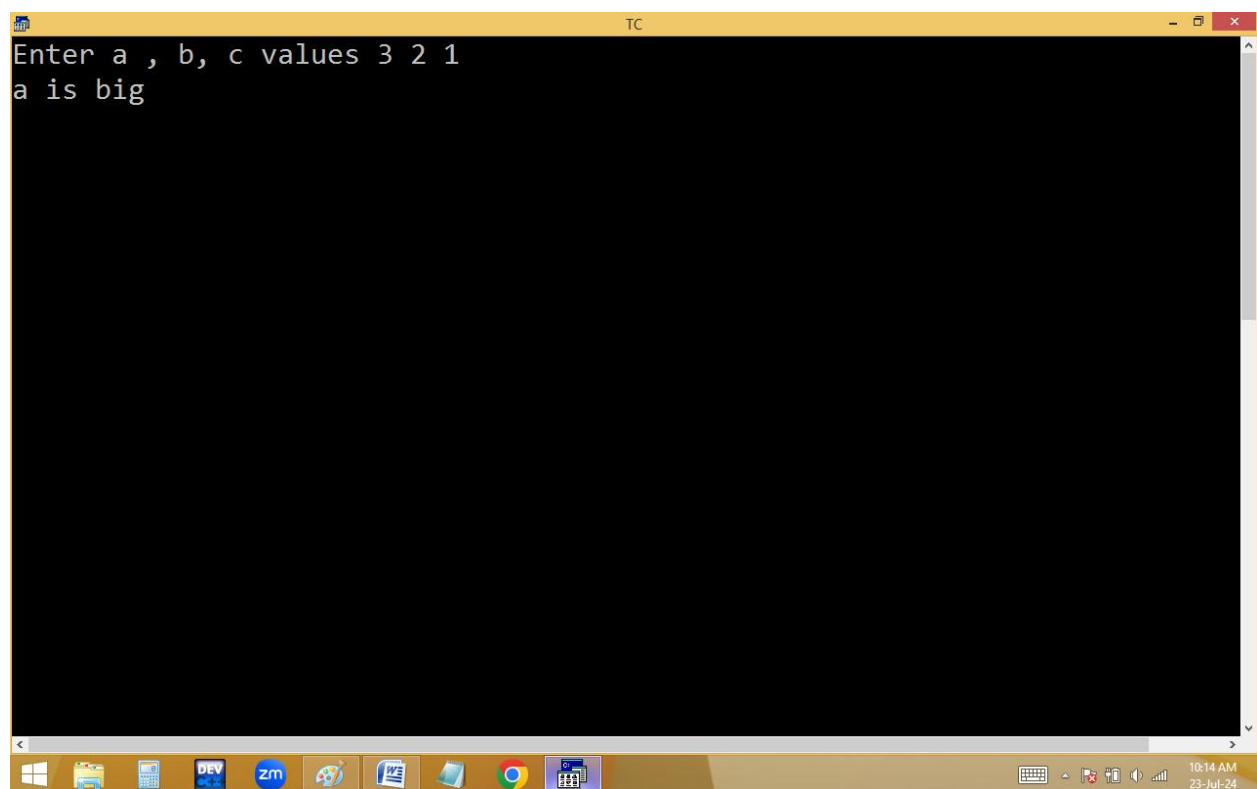
```
Enter a , b, c values 2 2 2
All are equal
```

The Windows taskbar at the bottom is identical to the first image, showing the same icons and system tray information.

```
TC
Enter a , b, c values 1 2 3
c is big
```

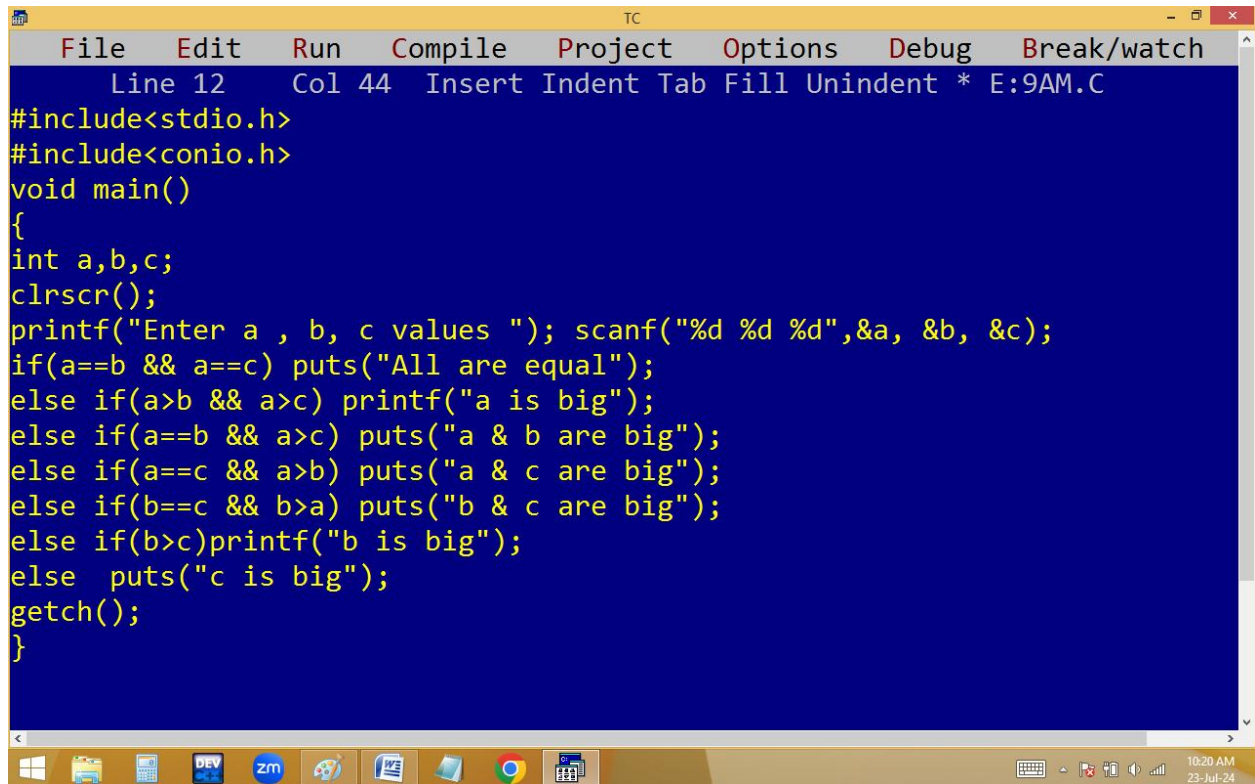


```
TC
Enter a , b, c values 3 2 1
a is big
```



```
TC
Enter a , b, c values 1 3 2
b is big_
```

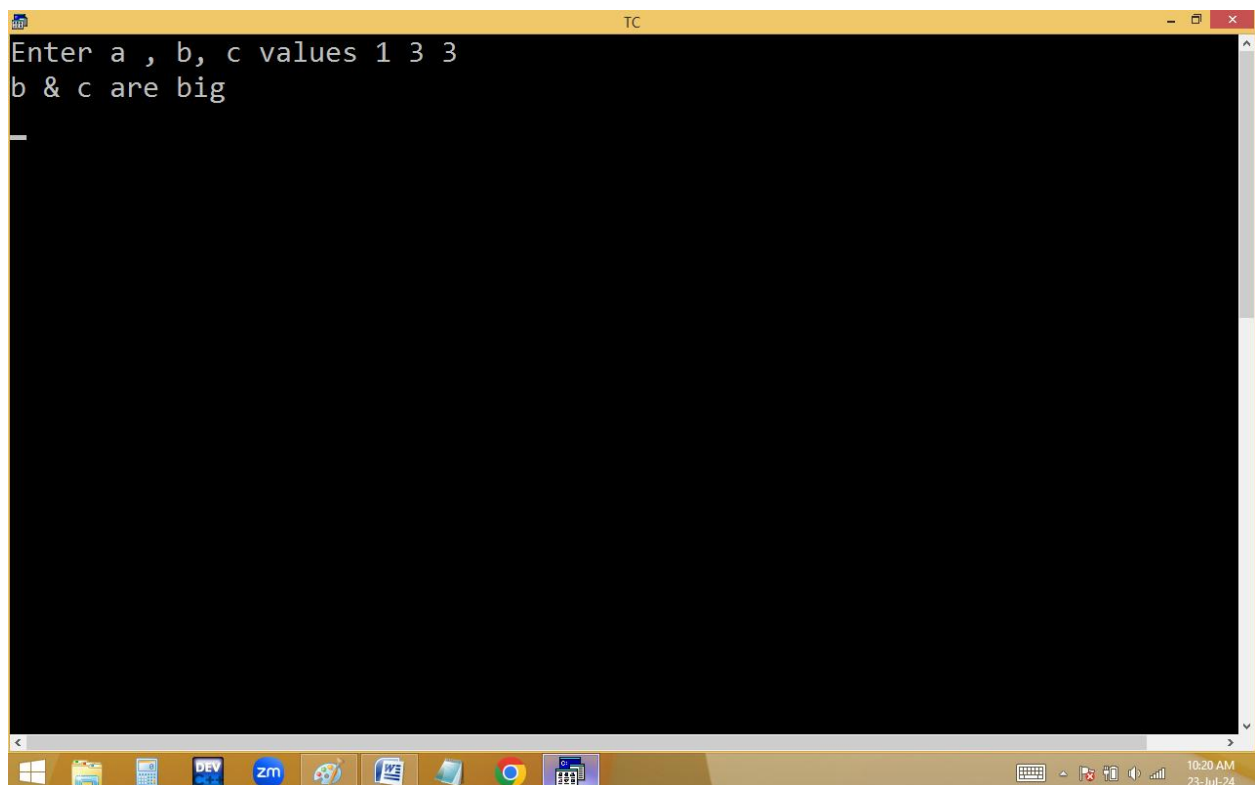
```
TC
Enter a , b, c values 3 3 2
b is big
```



The screenshot shows the Turbo C++ (TC) IDE with a menu bar (File, Edit, Run, Compile, Project, Options, Debug, Break/watch) and a status bar (Line 12, Col 44, Insert, Indent, Tab, Fill, Unindent, \* E:9AM.C). The code is as follows:

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a,b,c;
clrscr();
printf("Enter a , b, c values "); scanf("%d %d %d",&a, &b, &c);
if(a==b && a==c) puts("All are equal");
else if(a>b && a>c) printf("a is big");
else if(a==b && a>c) puts("a & b are big");
else if(a==c && a>b) puts("a & c are big");
else if(b==c && b>a) puts("b & c are big");
else if(b>c)printf("b is big");
else puts("c is big");
getch();
}
```

The Windows taskbar at the bottom shows icons for Windows, File Explorer, Calculator, DEV C++, ZOOM, and other applications. The system clock indicates 10:20 AM on 23-Jul-24.



The screenshot shows the Turbo C++ (TC) IDE with the same menu bar and status bar as the first image. The output window displays the following text:

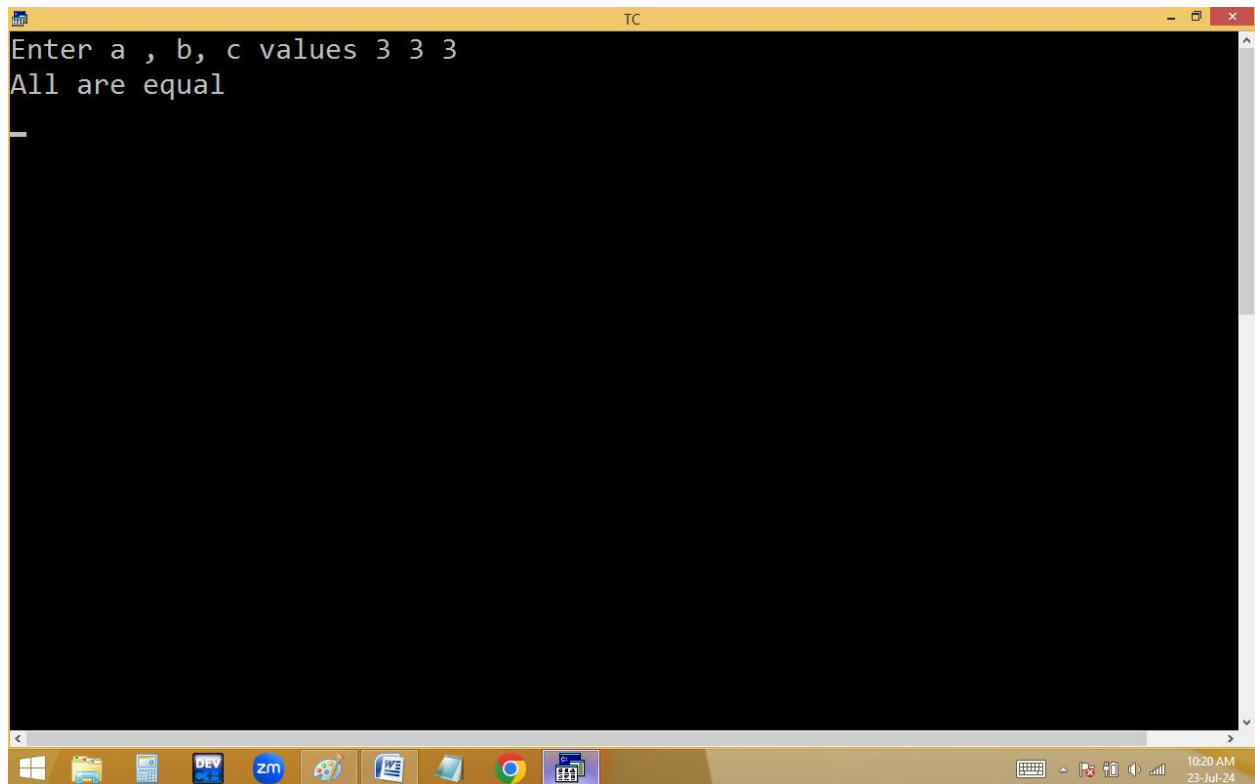
```
Enter a , b, c values 1 3 3
b & c are big
```

The Windows taskbar at the bottom is identical to the first image, showing the same set of application icons and system clock.

```
TC
Enter a , b, c values 3 1 3
a & c are big
```

```
TC
Enter a , b, c values 1 2 3
c is big
```

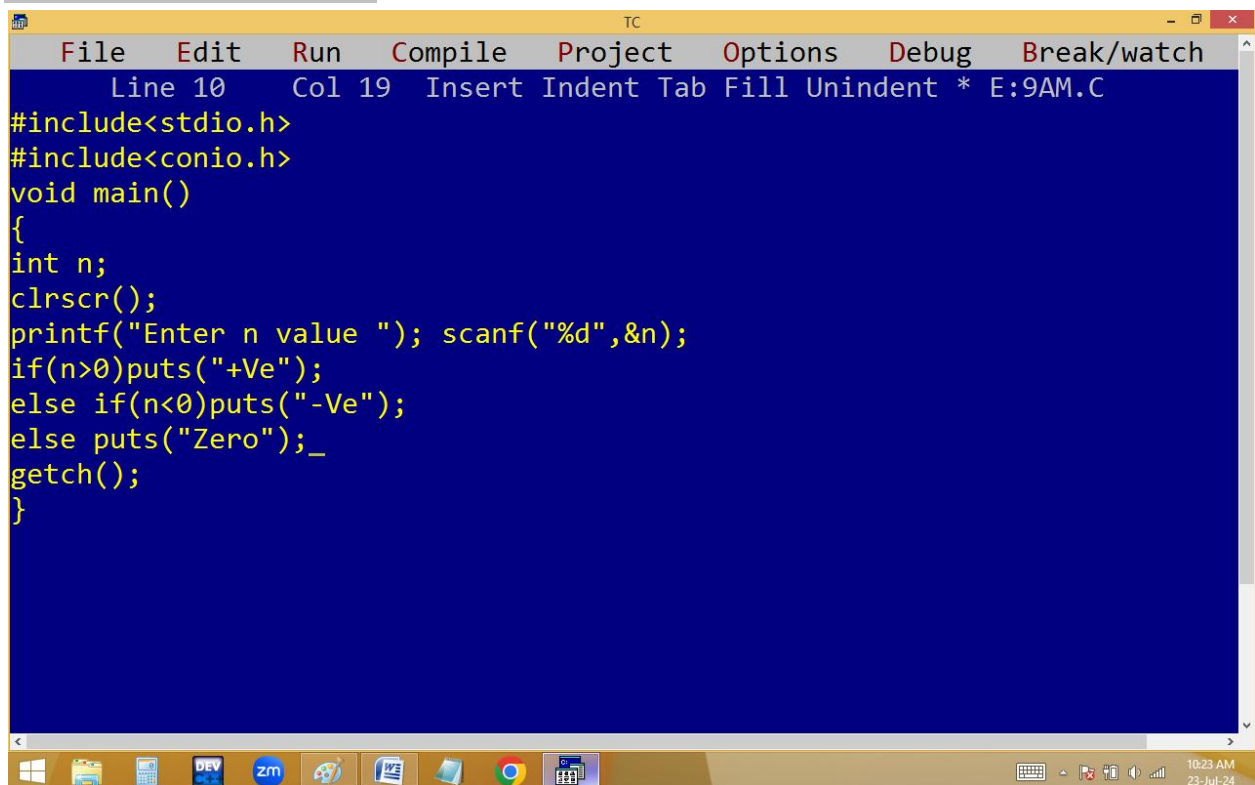




A screenshot of a Turbo C++ (TC) console window. The window has a yellow title bar with the text "TC" and standard window controls. The main area is black with white text. The text displayed is "Enter a , b, c values 3 3 3" followed by "All are equal" on the next line. The Windows taskbar is visible at the bottom, showing various application icons and the system clock indicating 10:20 AM on 23-Jul-24.

```
Enter a , b, c values 3 3 3
All are equal
```

## Finding +Ve / -Ve / 0

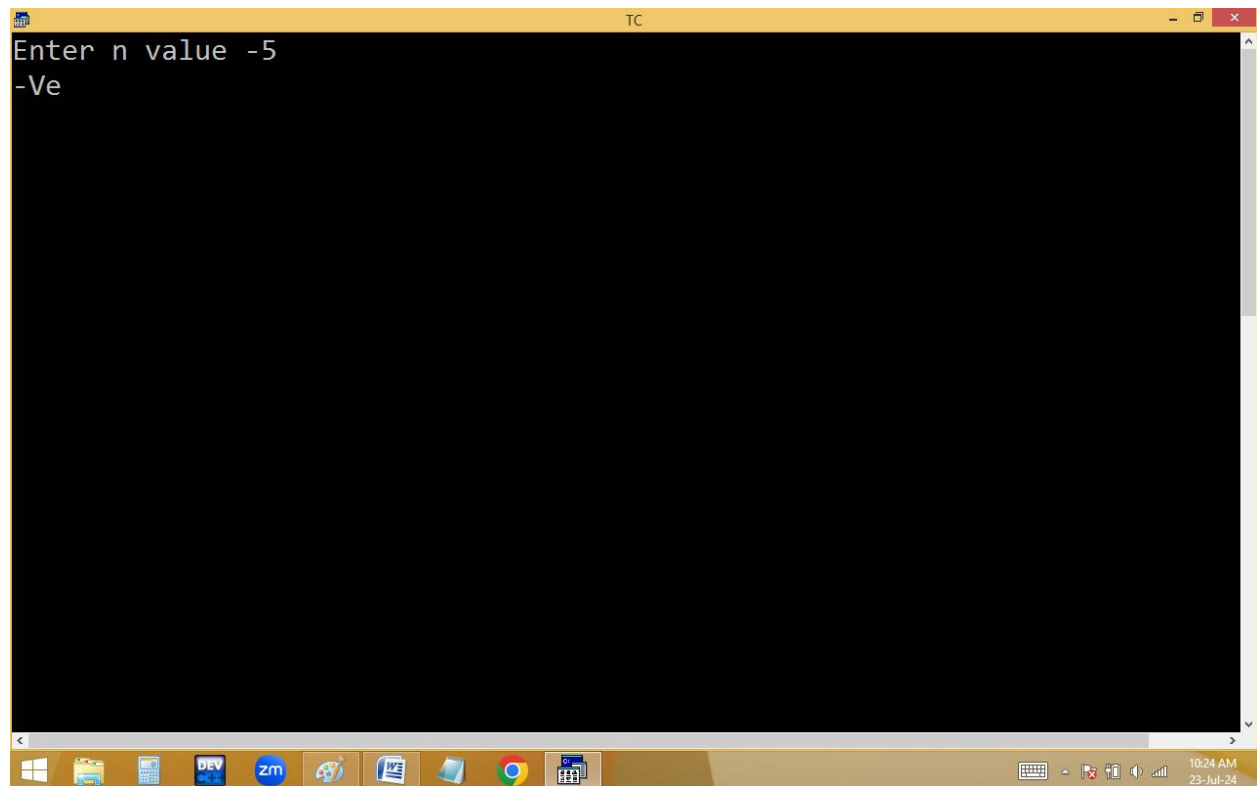


A screenshot of a Turbo C++ (TC) editor window. The window has a yellow title bar with the text "TC" and standard window controls. Below the title bar is a menu bar with options: File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. Below the menu bar is a status bar showing "Line 10 Col 19 Insert Indent Tab Fill Unindent \* E:9AM.C". The main area has a blue background with yellow text showing the source code of a program. The code includes headers for stdio.h and conio.h, defines a main function, declares an integer variable n, clears the screen, prompts the user for a value, reads the value using scanf, and then uses if-else statements to print "+Ve", "-Ve", or "Zero" based on the value of n. The program ends with getch() and a closing brace for the main function. The Windows taskbar is visible at the bottom, showing various application icons and the system clock indicating 10:23 AM on 23-Jul-24.

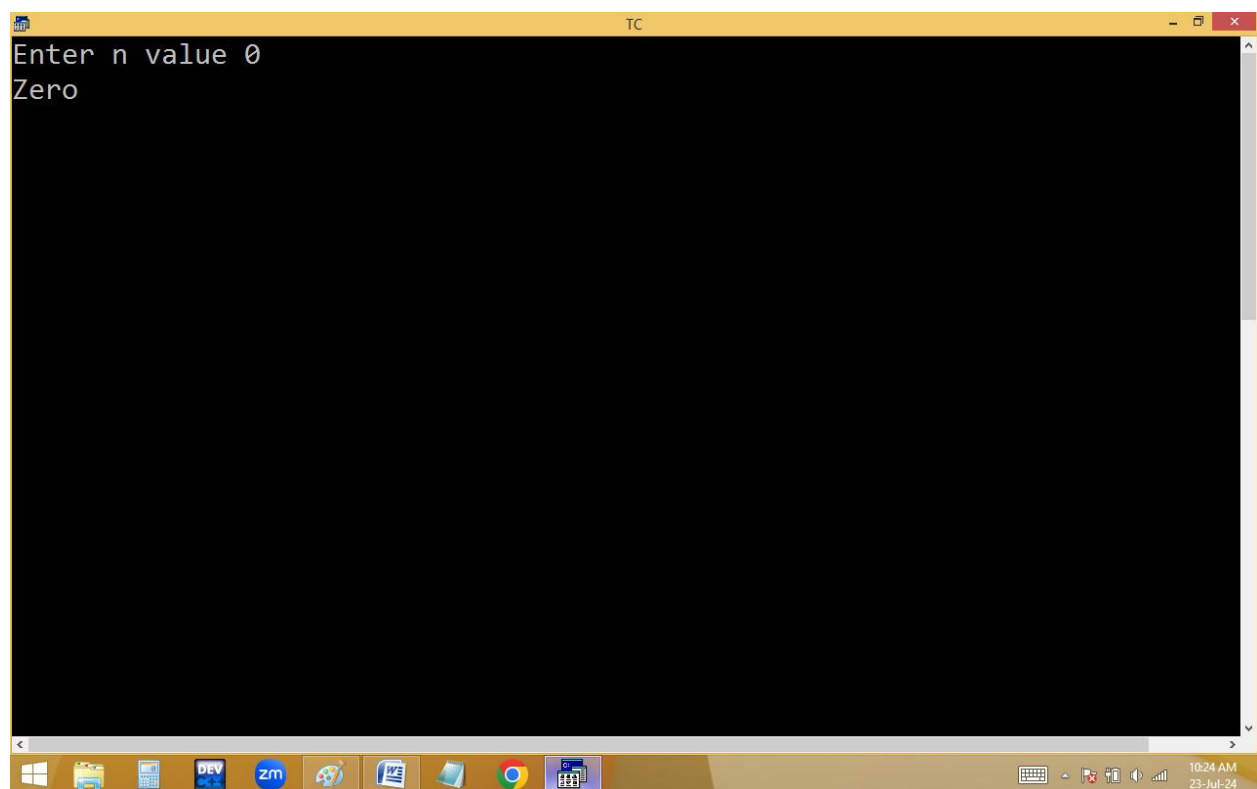
```
File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 19 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int n;
clrscr();
printf("Enter n value "); scanf("%d",&n);
if(n>0)puts("+Ve");
else if(n<0)puts("-Ve");
else puts("Zero");_
getch();
}
```



```
TC
Enter n value -5
-Ve
```



```
TC
Enter n value 0
Zero
```



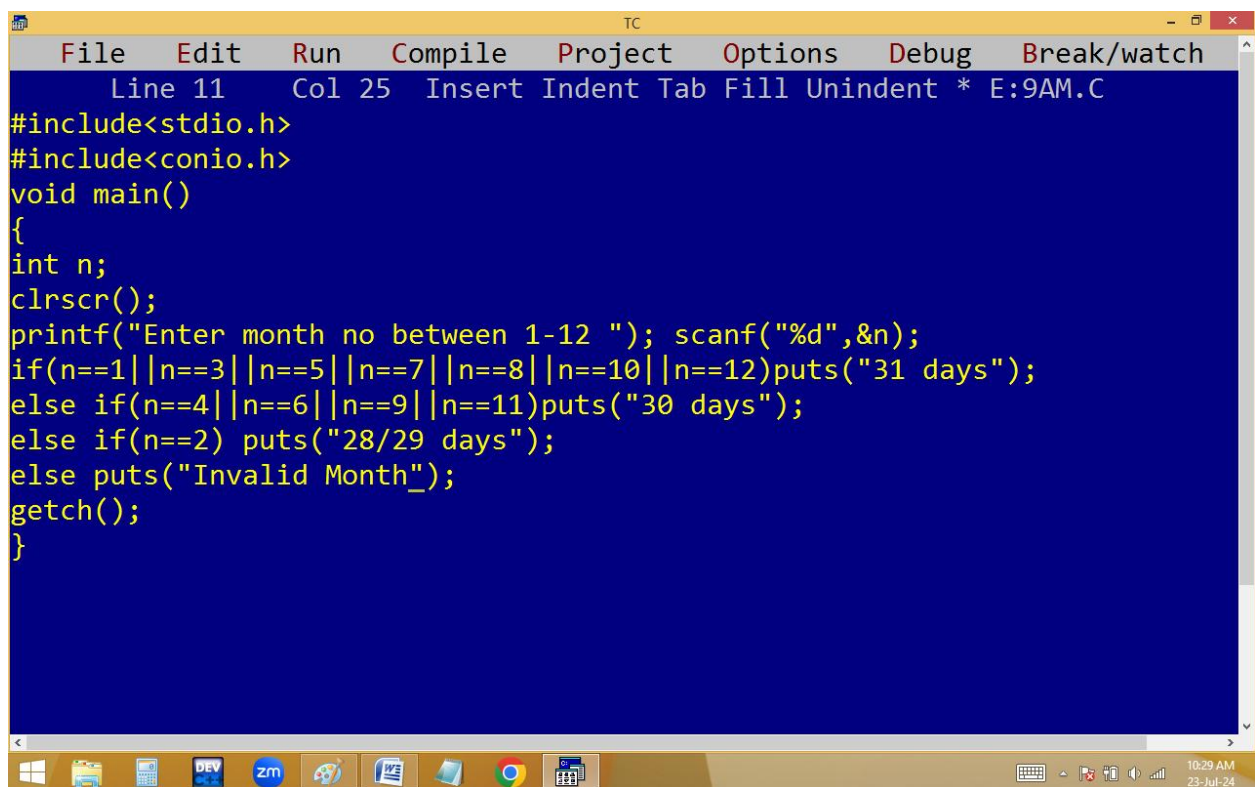
## Finding no of days in given month.

1/3/5/7/8/10/12 – 31 days

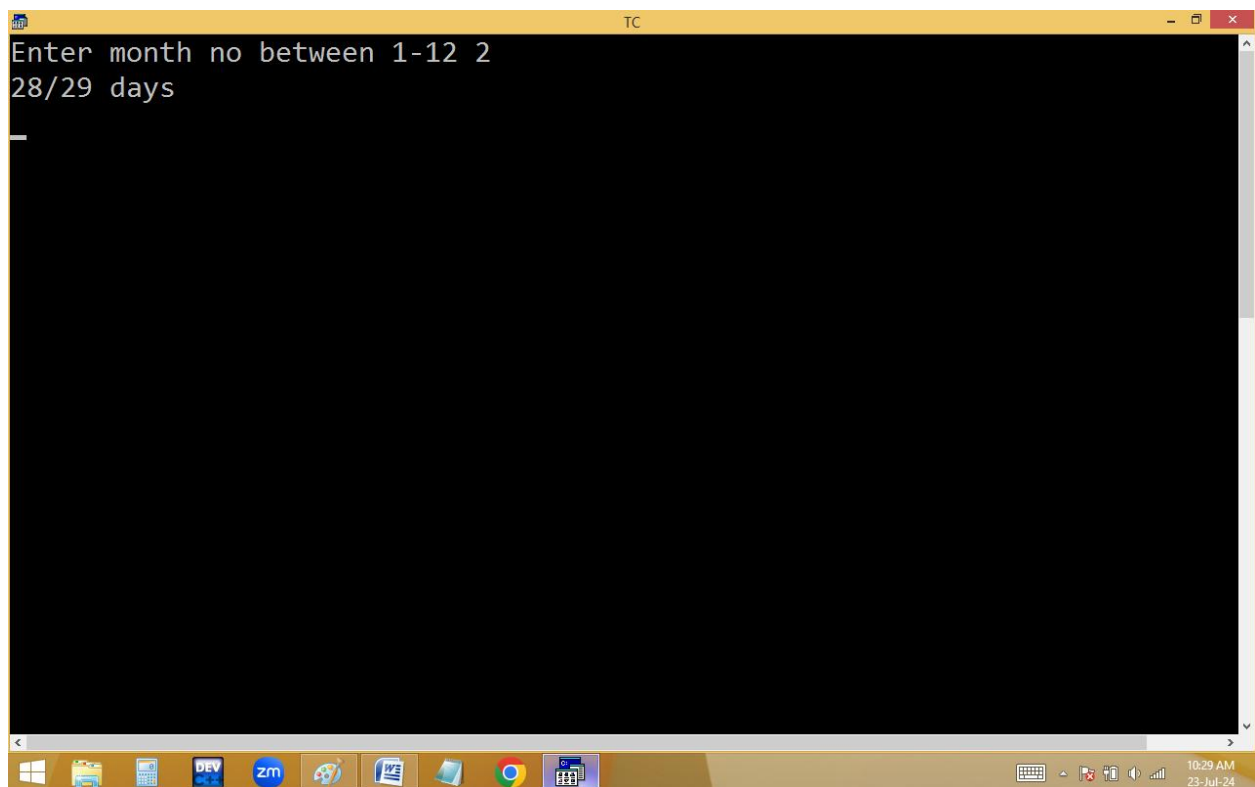
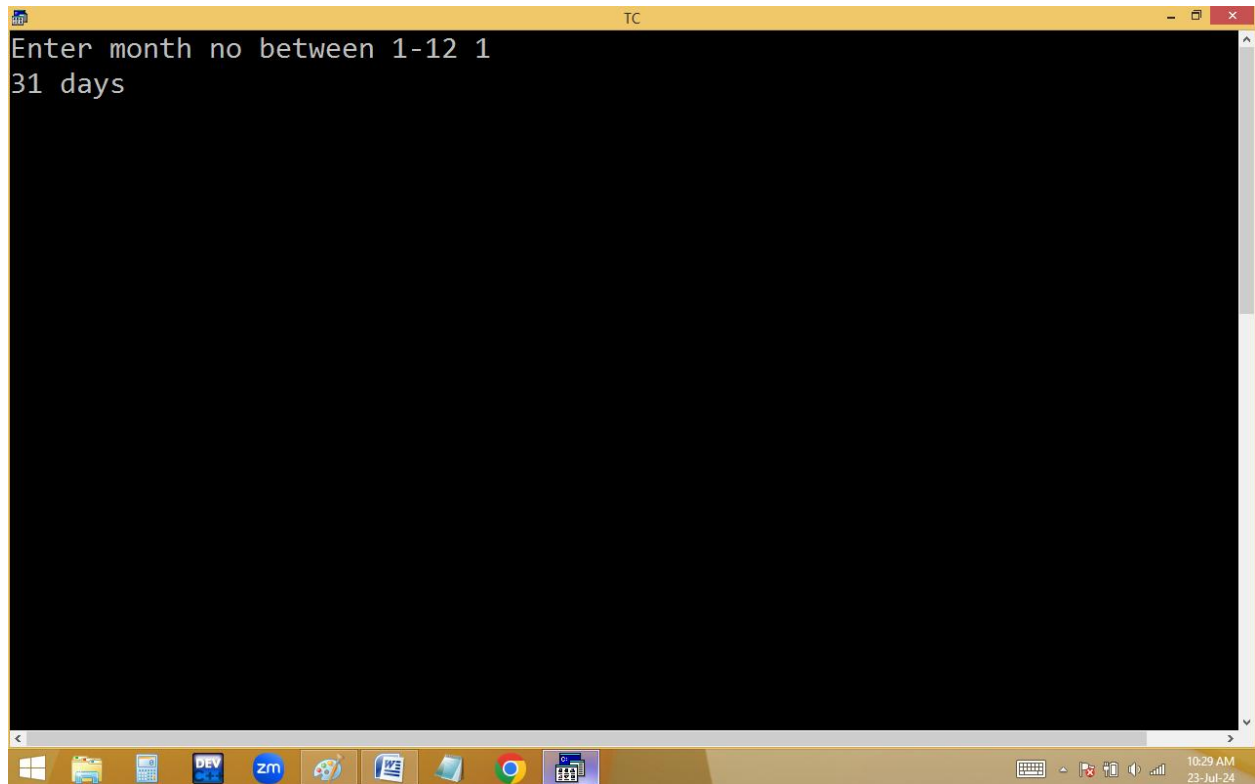
4/6/9/11-30 days

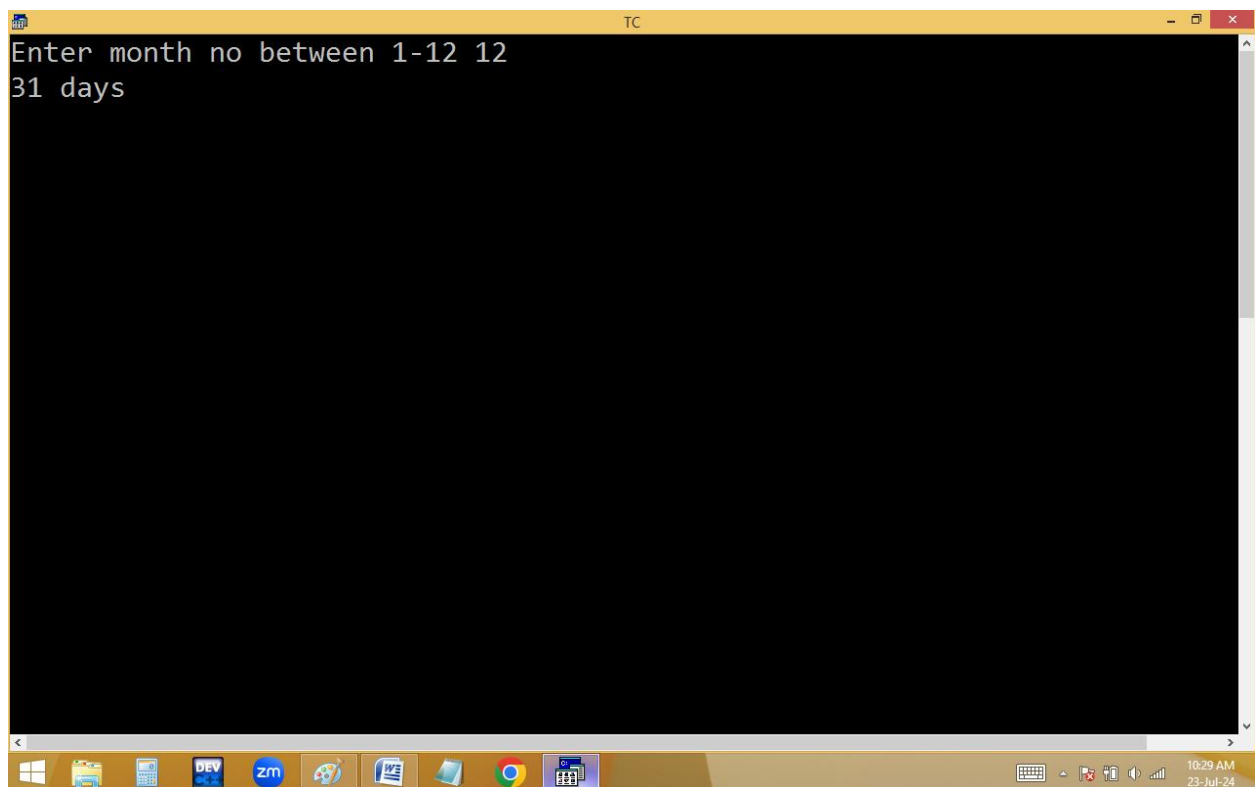
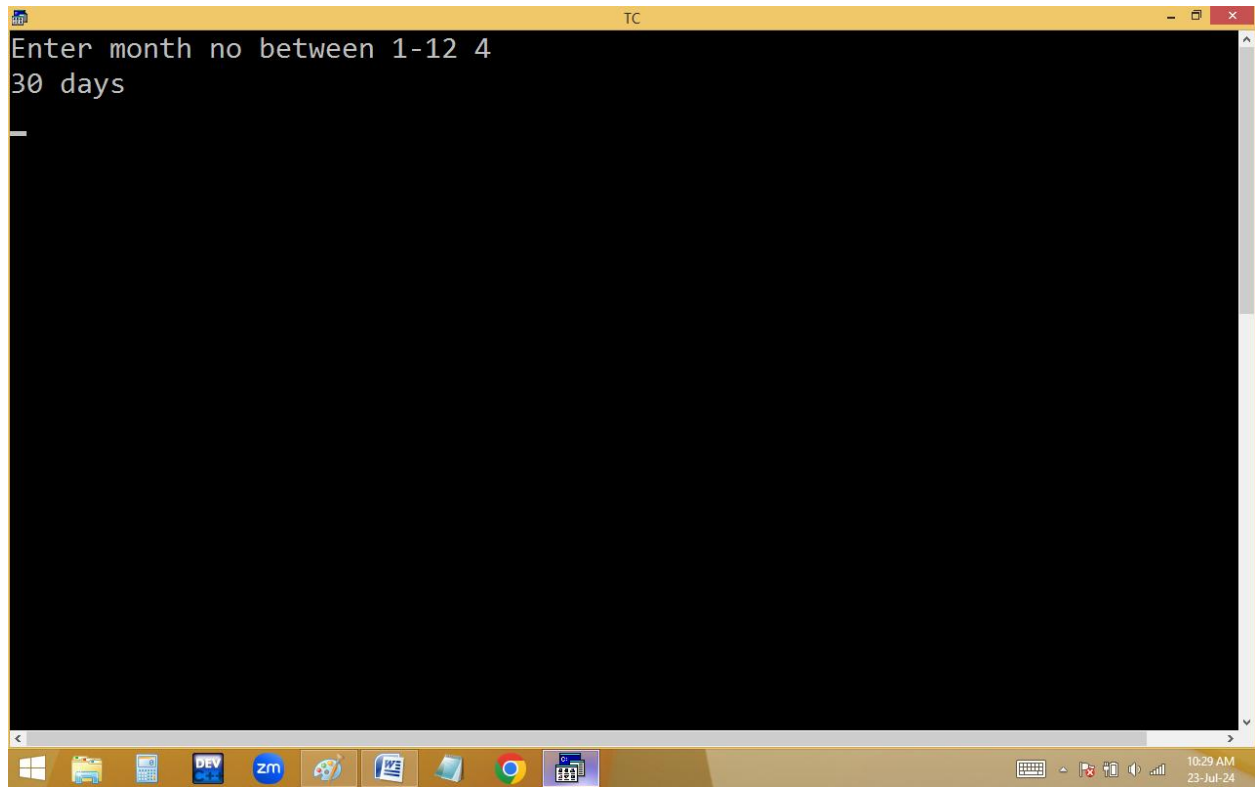
2-28/29 days

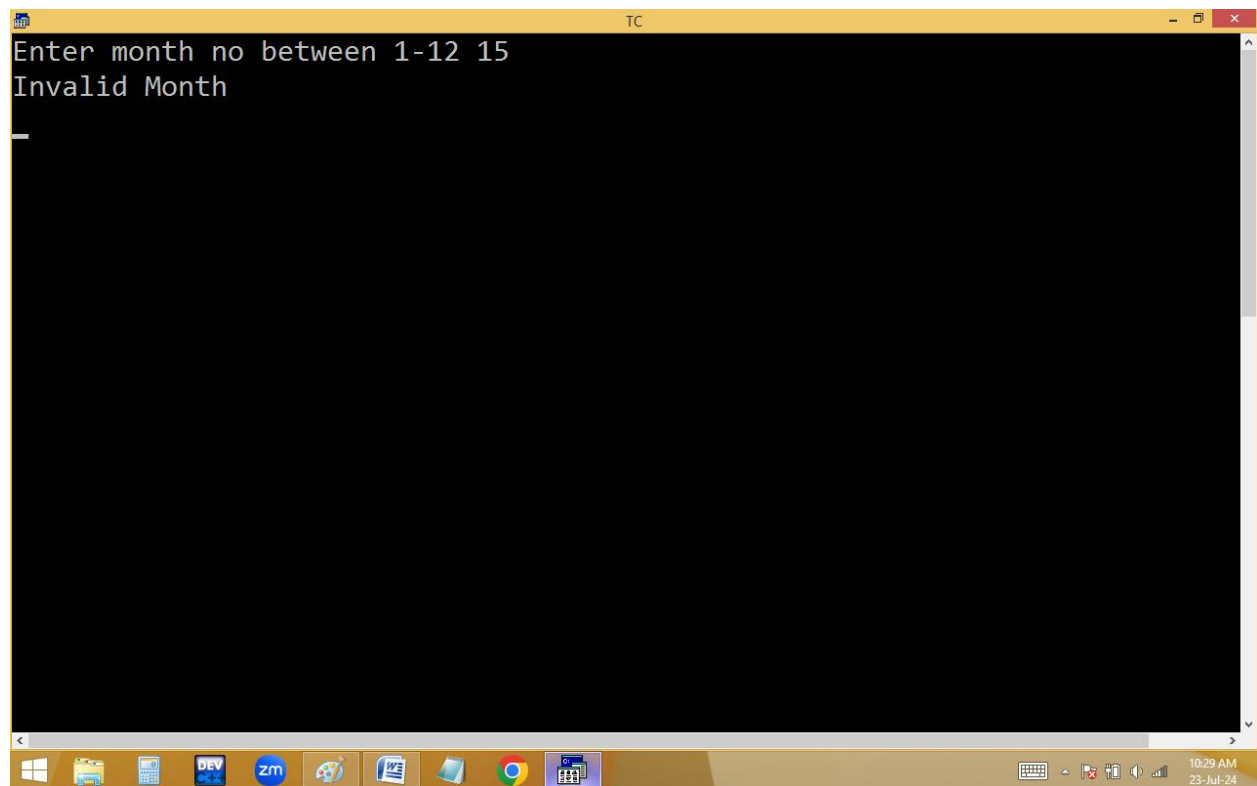
Others – invalid month



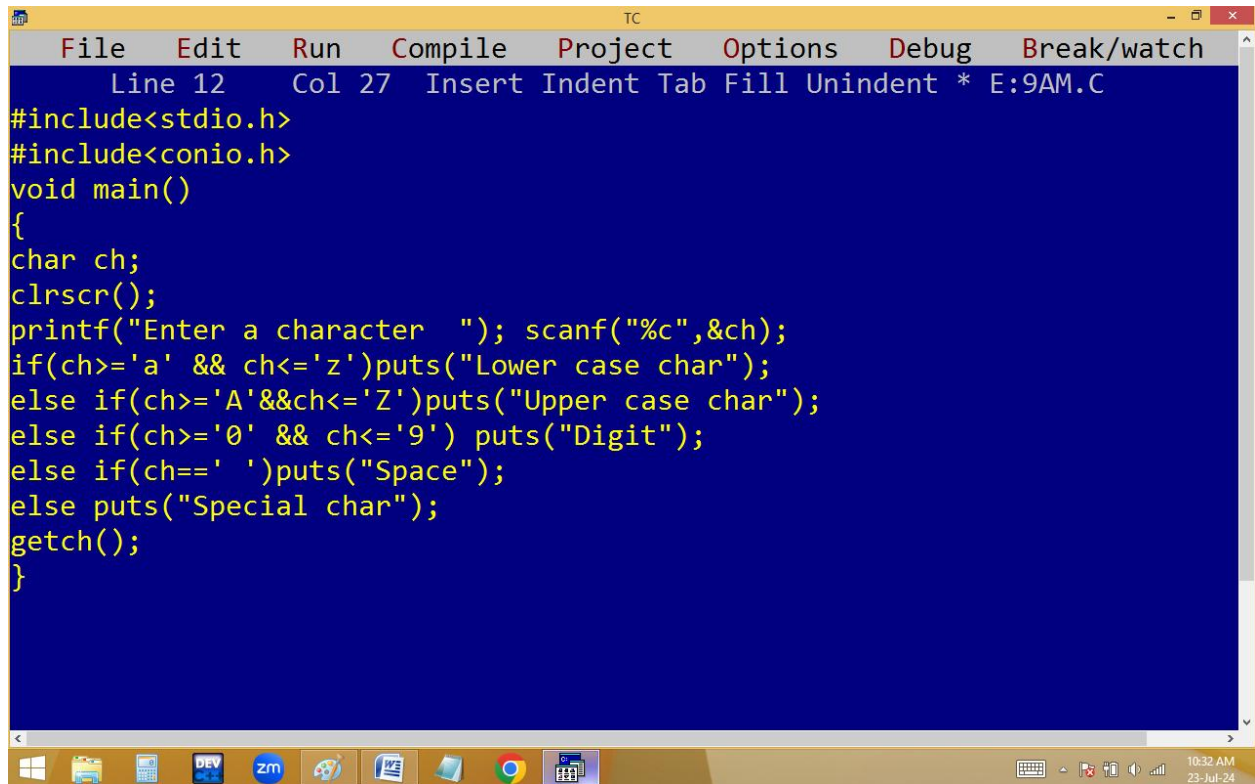
```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 25 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int n;
clrscr();
printf("Enter month no between 1-12 "); scanf("%d",&n);
if(n==1||n==3||n==5||n==7||n==8||n==10||n==12)puts("31 days");
else if(n==4||n==6||n==9||n==11)puts("30 days");
else if(n==2) puts("28/29 days");
else puts("Invalid Month_");
getch();
}
```







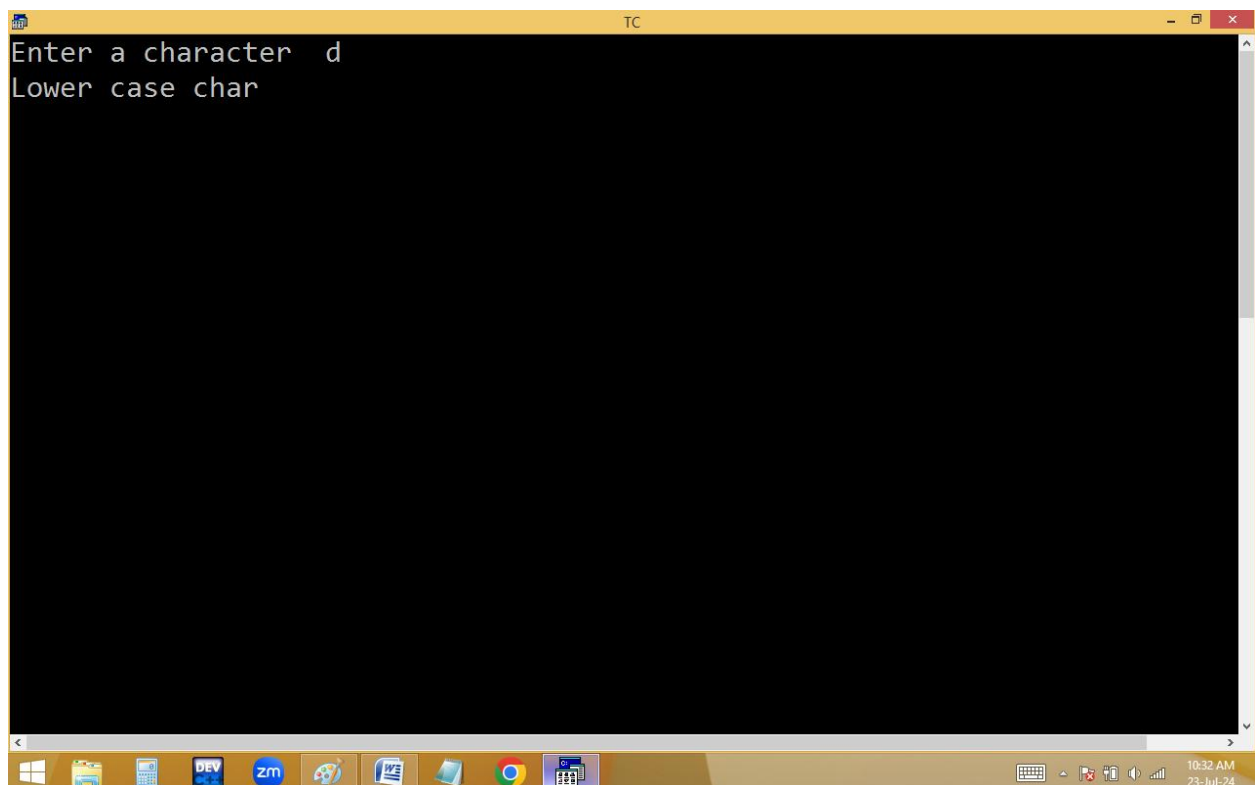
Finding lower/ upper / digit / space/ special char



The screenshot shows the Turbo C++ (TC) IDE with a blue background. The menu bar includes File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. The status bar at the top indicates 'Line 12 Col 27 Insert Indent Tab Fill Unindent \* E:9AM.C'. The code is as follows:

```
#include<stdio.h>
#include<conio.h>
void main()
{
char ch;
clrscr();
printf("Enter a character "); scanf("%c",&ch);
if(ch>='a' && ch<='z')puts("Lower case char");
else if(ch>='A'&&ch<='Z')puts("Upper case char");
else if(ch>='0' && ch<='9') puts("Digit");
else if(ch==' ')puts("Space");
else puts("Special char");
getch();
}
```

The Windows taskbar at the bottom shows icons for Windows, File Explorer, Calculator, DEV C++, ZOOM, and other applications. The system clock shows 10:32 AM on 23-Jul-24.

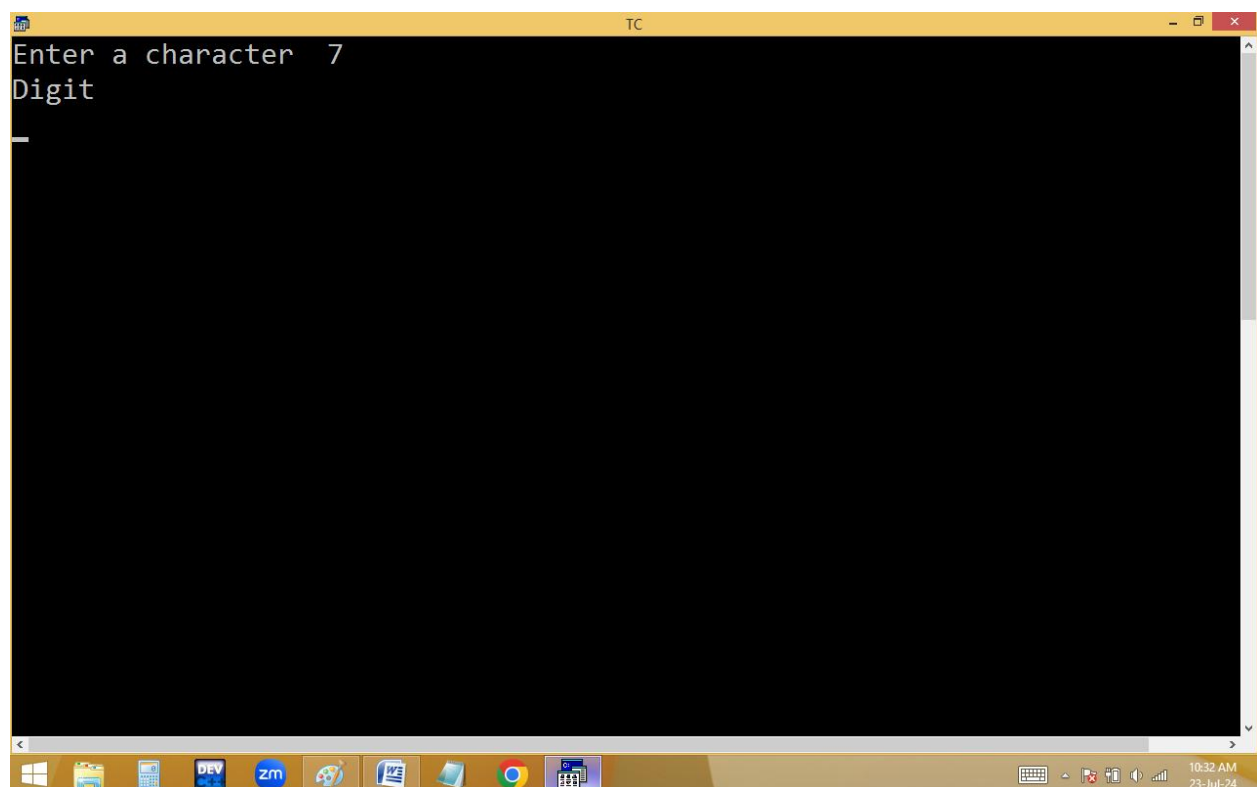
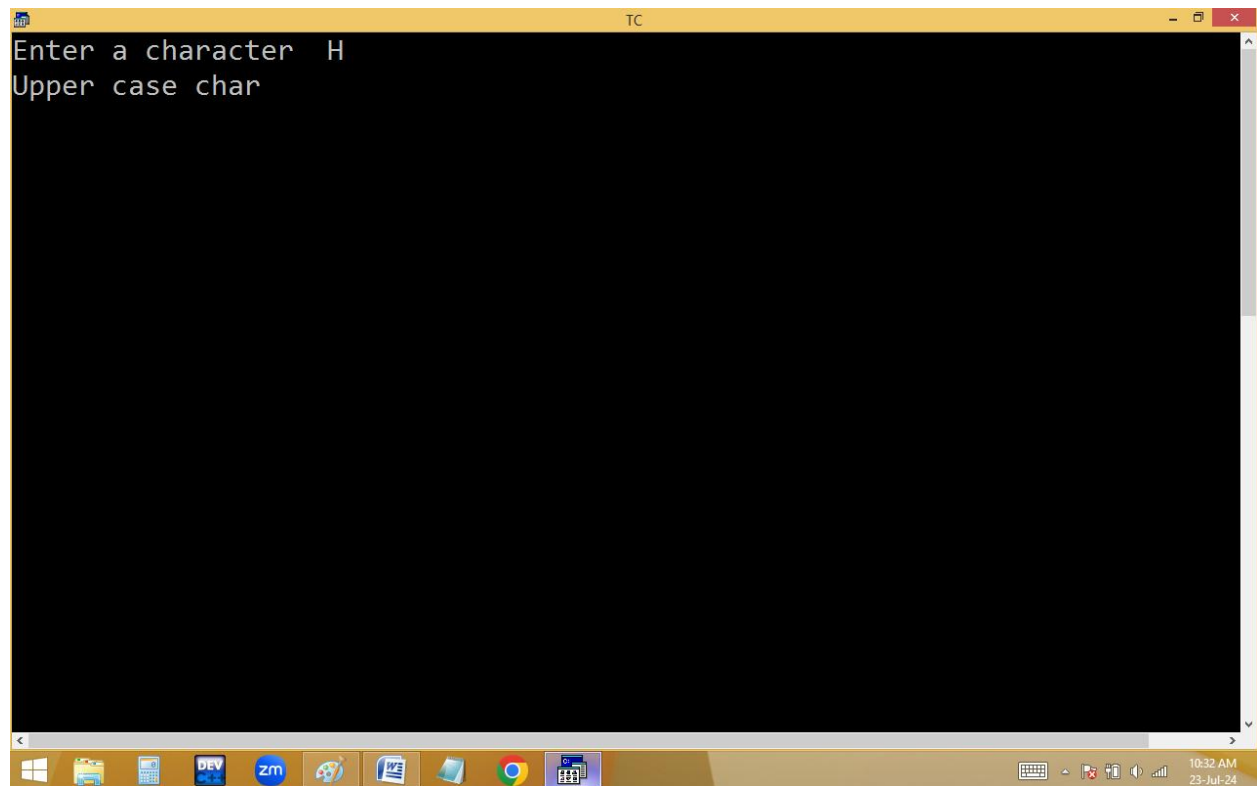


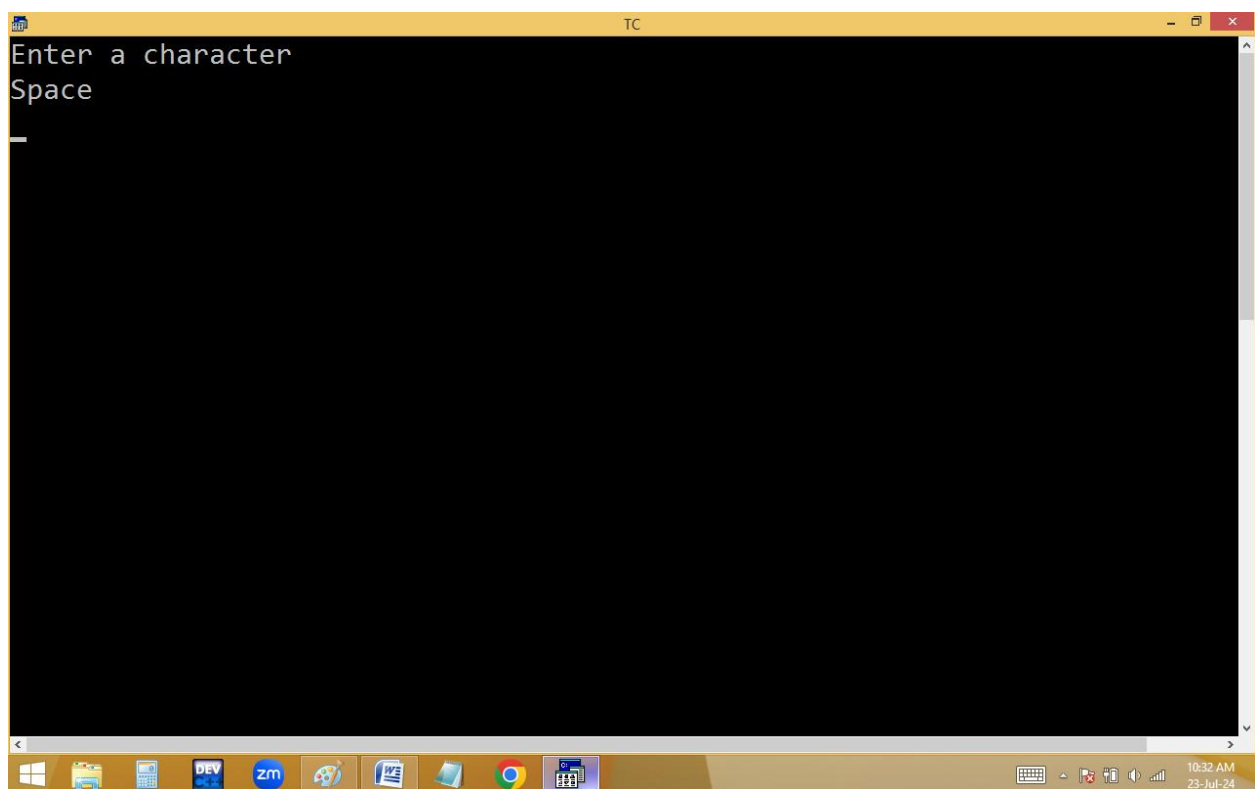
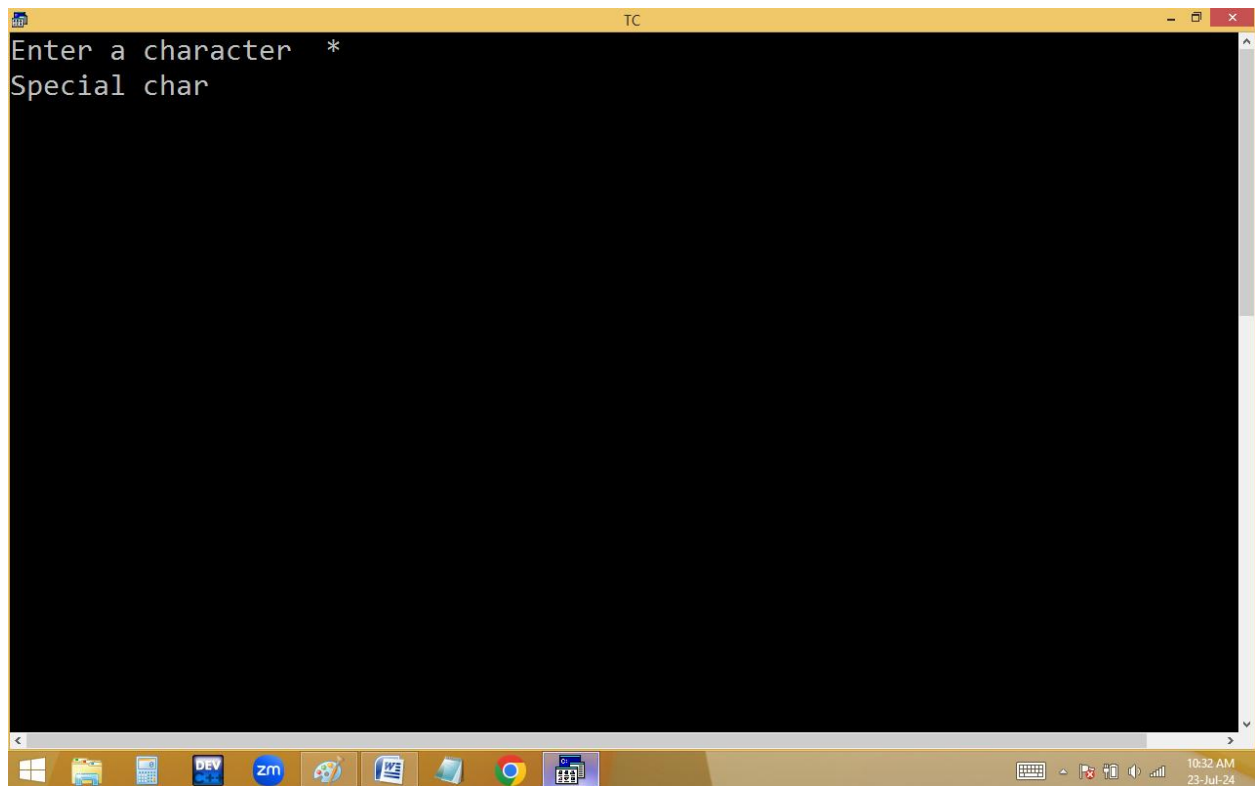
The screenshot shows the Turbo C++ (TC) IDE with a black background, displaying the output of the program. The text 'Enter a character d' is on the first line, and 'Lower case char' is on the second line, indicating that the character 'd' was input and correctly classified as a lower case character.

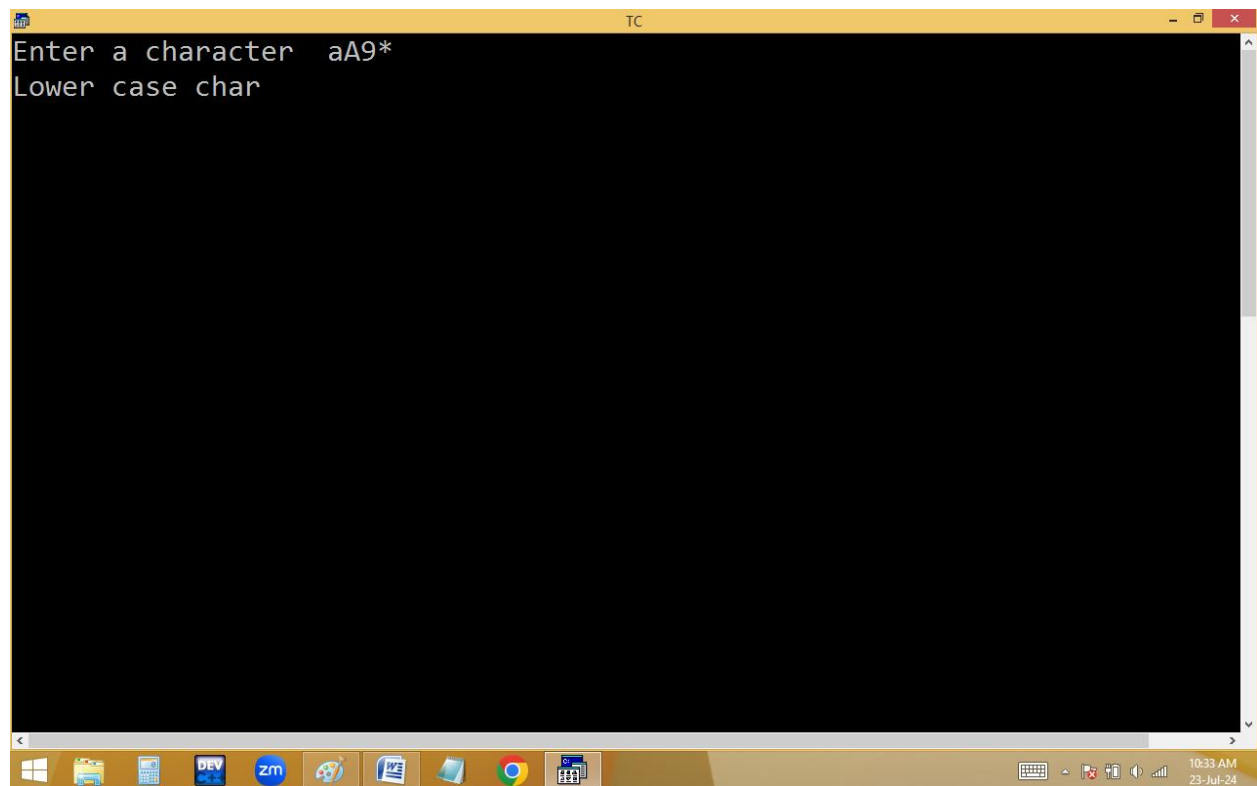
```
Enter a character d
Lower case char
```

The Windows taskbar at the bottom is identical to the first screenshot, showing the same set of application icons and system clock information (10:32 AM, 23-Jul-24).

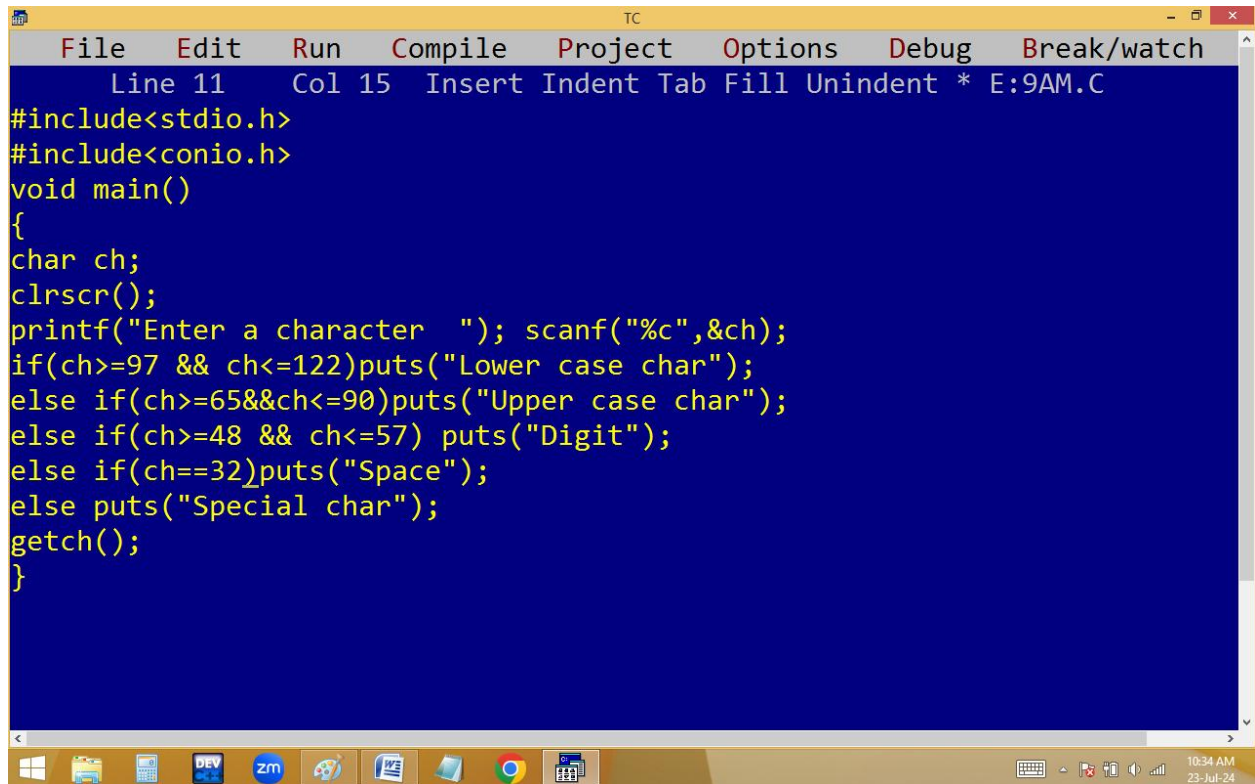








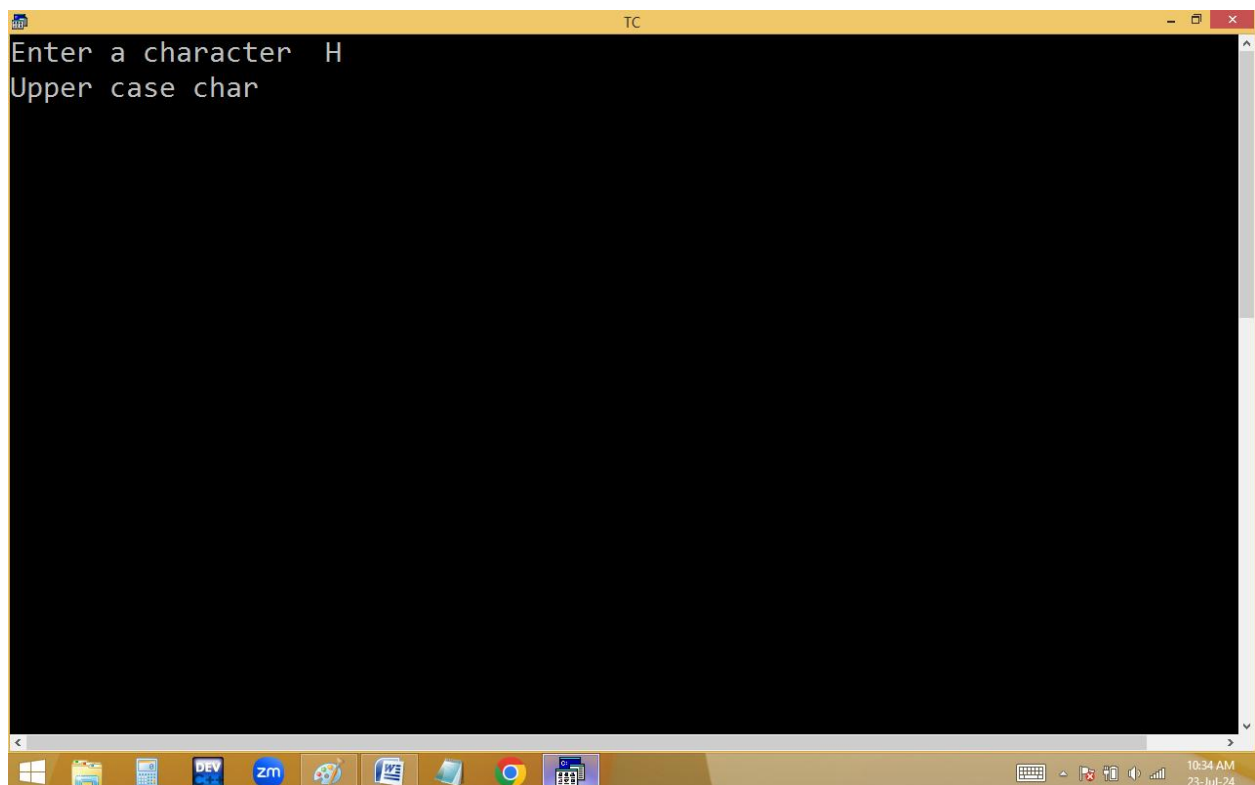
**Using ascii values:**



The screenshot shows the Turbo C++ (TC) IDE with a blue background. The menu bar includes File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. The status bar at the top indicates 'Line 11 Col 15 Insert Indent Tab Fill Unindent \* E:9AM.C'. The code in the editor is as follows:

```
#include<stdio.h>
#include<conio.h>
void main()
{
char ch;
clrscr();
printf("Enter a character "); scanf("%c",&ch);
if(ch>=97 && ch<=122)puts("Lower case char");
else if(ch>=65&&ch<=90)puts("Upper case char");
else if(ch>=48 && ch<=57) puts("Digit");
else if(ch==32)puts("Space");
else puts("Special char");
getch();
}
```

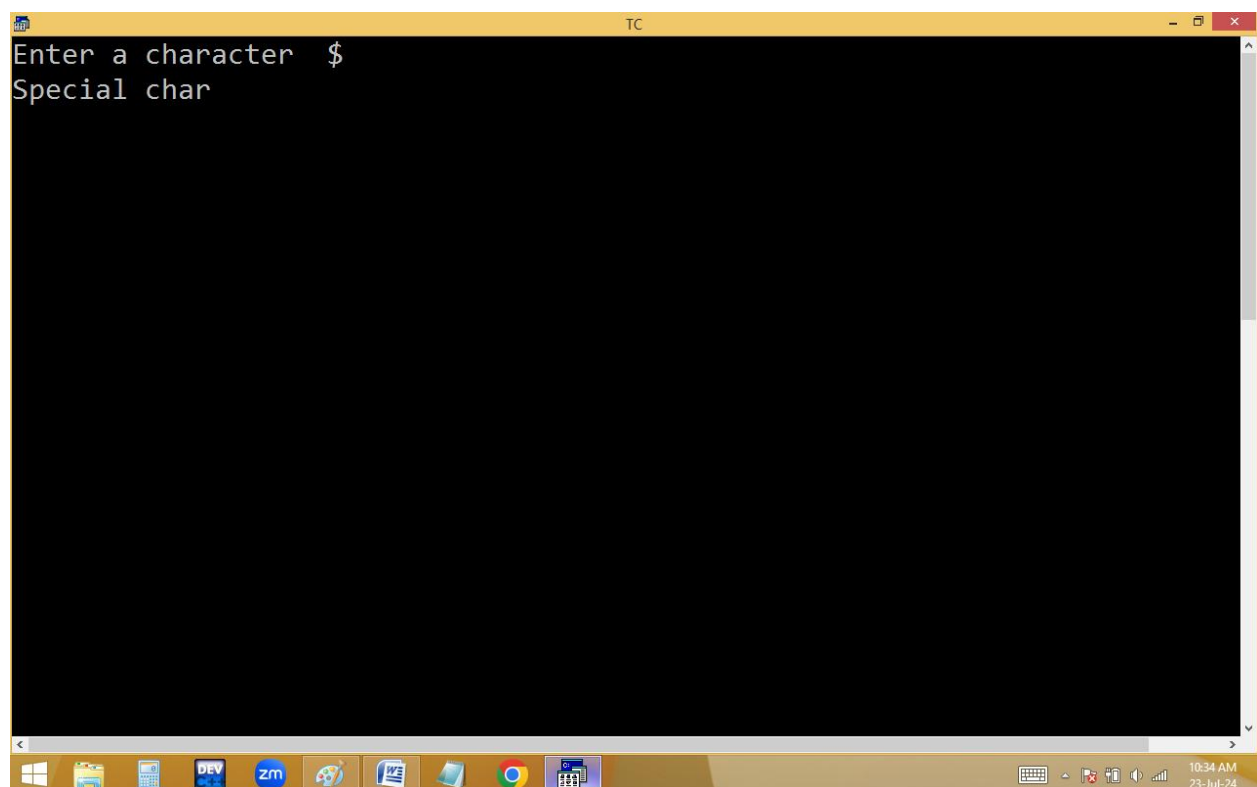
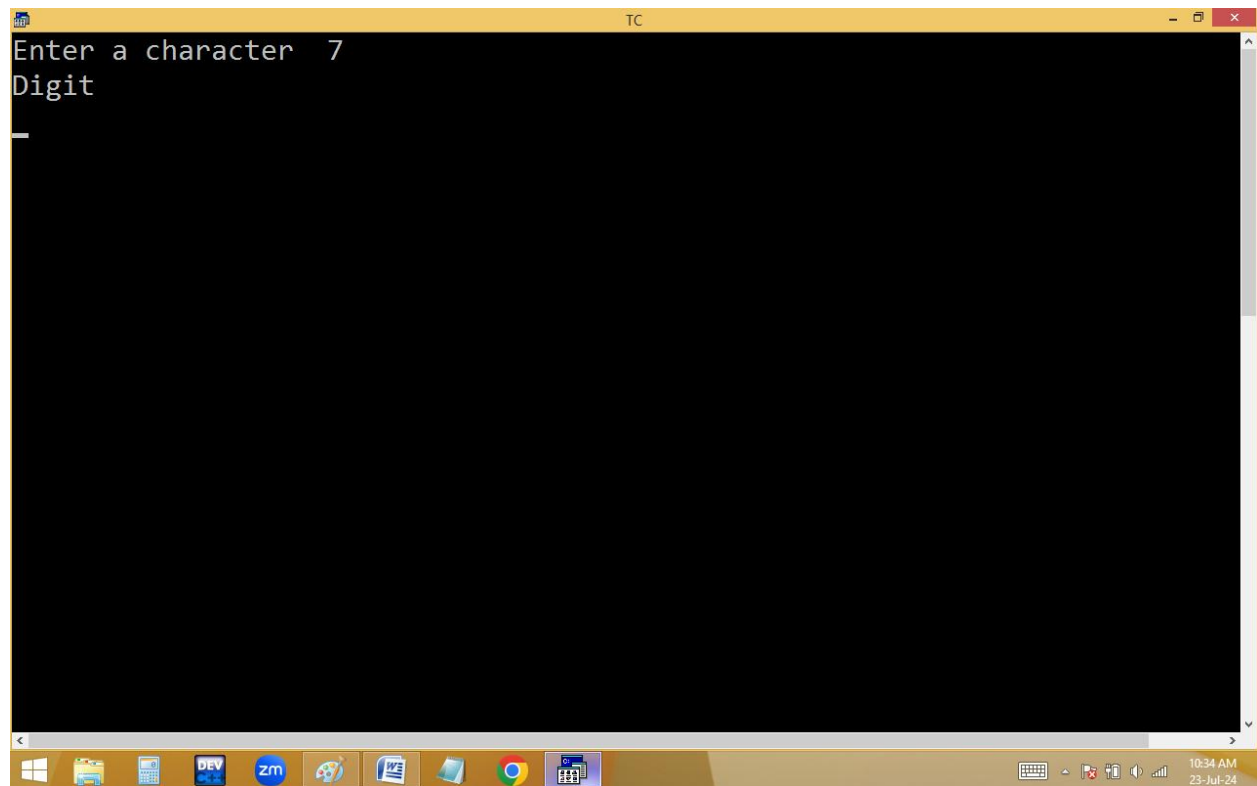
The Windows taskbar at the bottom shows icons for Windows, File Explorer, Calculator, DEV C++, ZOOM, and other applications. The system clock in the bottom right corner shows 10:34 AM on 23-Jul-24.

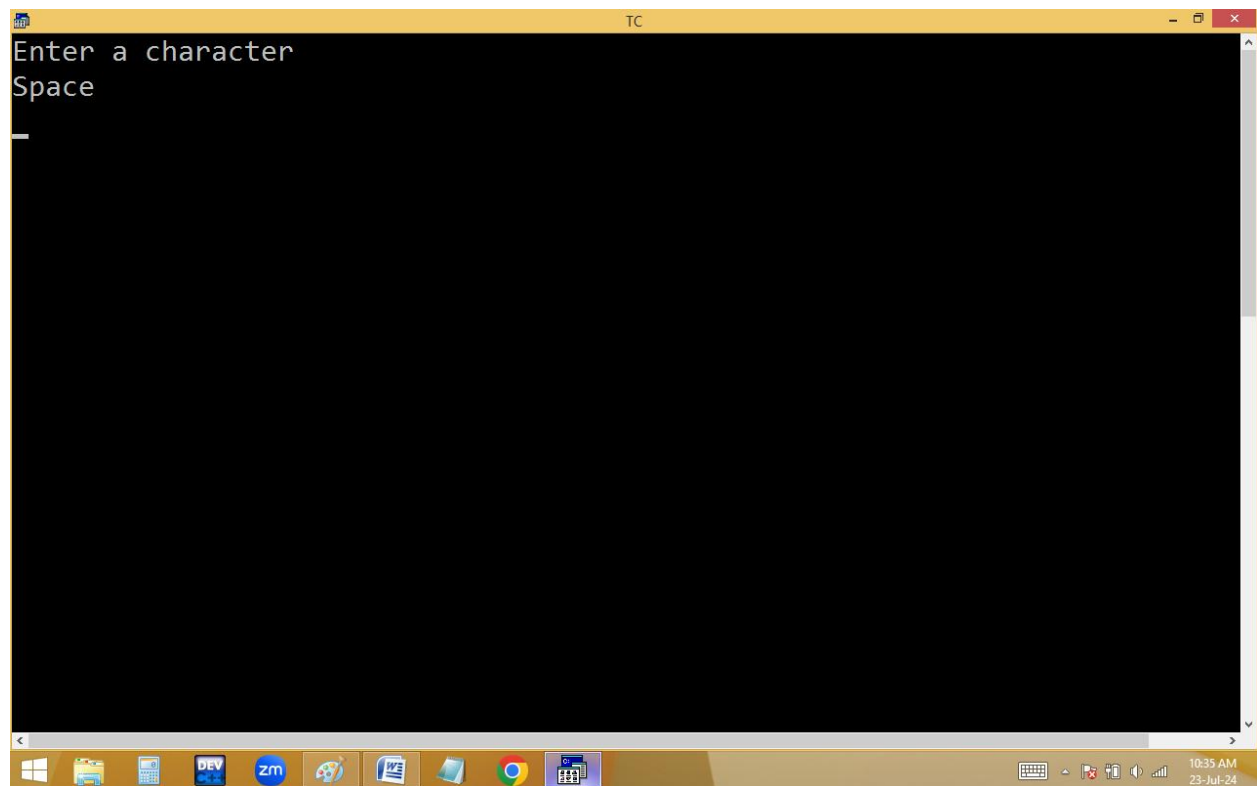


The screenshot shows the Turbo C++ (TC) IDE with a black background. The program has executed, and the output is displayed in the console window:

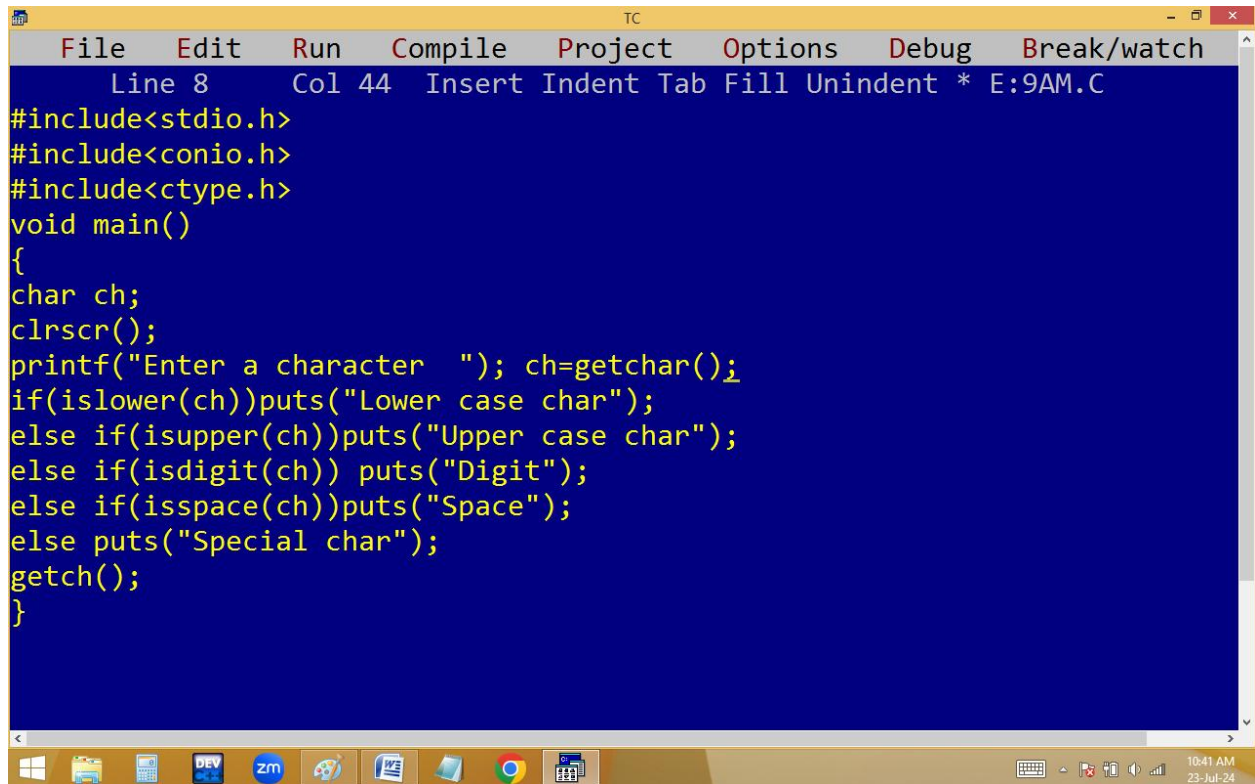
```
Enter a character H
Upper case char
```

The Windows taskbar at the bottom is the same as in the first screenshot, with the system clock showing 10:34 AM on 23-Jul-24.





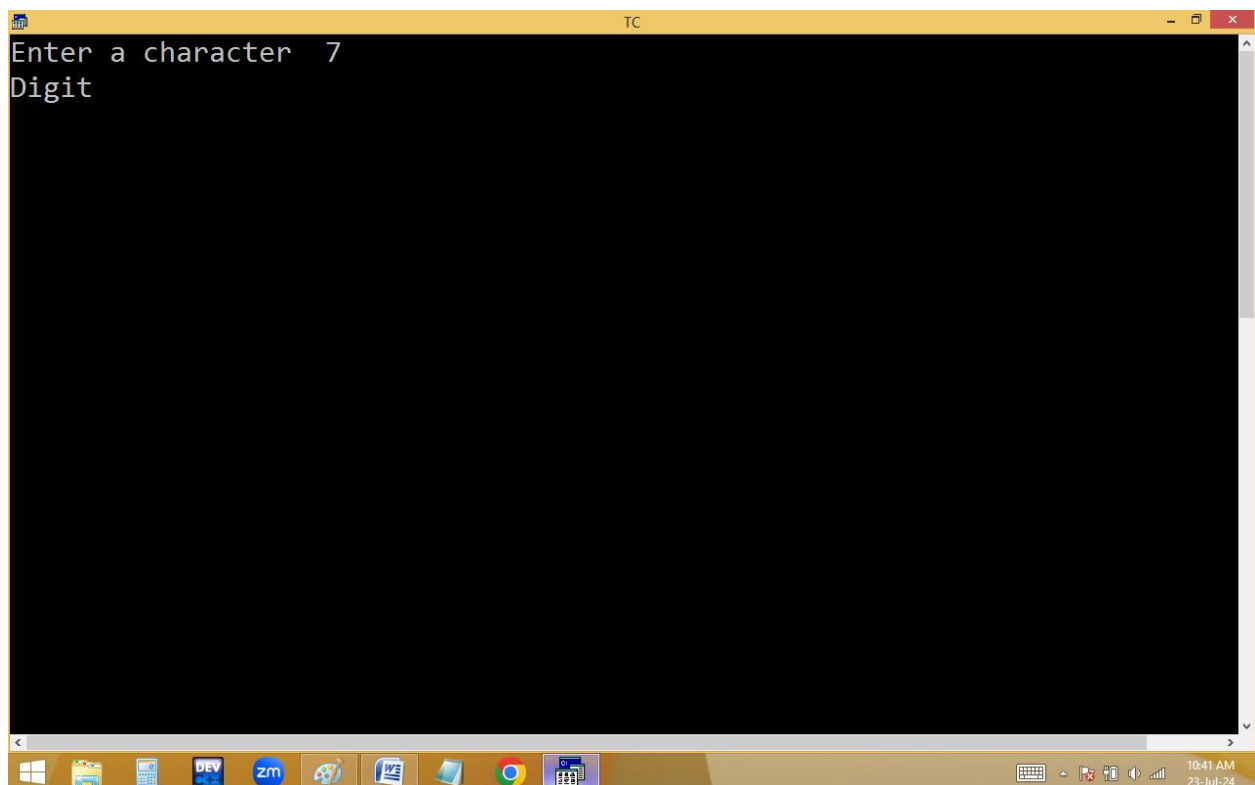
Using predefined functions:



The screenshot shows the Turbo C++ (TC) IDE with a yellow title bar and a menu bar containing File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. The status bar at the top indicates 'Line 8 Col 44 Insert Indent Tab Fill Unindent \* E:9AM.C'. The main editing area has a blue background and contains the following C code:

```
#include<stdio.h>
#include<conio.h>
#include<ctype.h>
void main()
{
char ch;
clrscr();
printf("Enter a character "); ch=getchar();
if(islower(ch))puts("Lower case char");
else if(isupper(ch))puts("Upper case char");
else if(isdigit(ch)) puts("Digit");
else if(isspace(ch))puts("Space");
else puts("Special char");
getch();
}
```

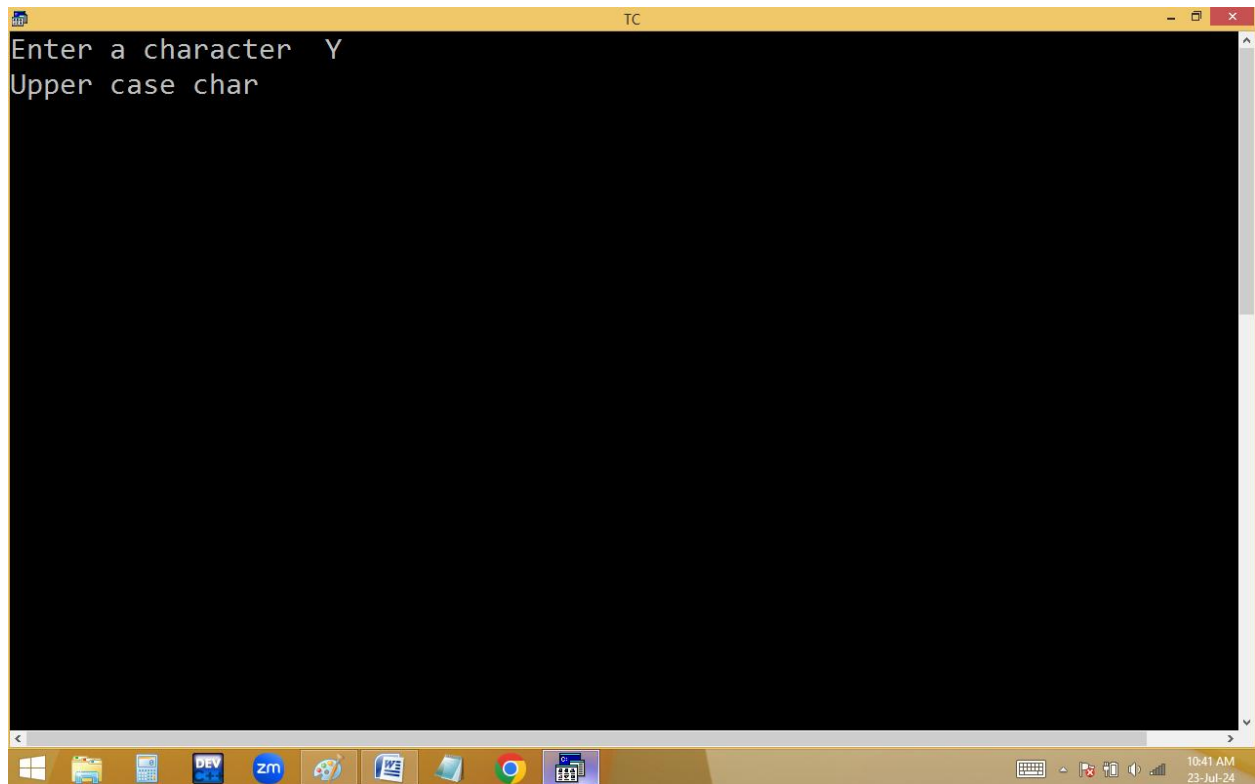
The Windows taskbar at the bottom shows icons for Windows, File Explorer, Calculator, DEV C++, Zm, a game controller, a document, a folder, Google Chrome, and a calendar. The system clock in the bottom right corner displays '10:41 AM 23-Jul-24'.



The screenshot shows the Turbo C++ (TC) IDE with a yellow title bar. The main editing area now has a black background and displays the program's output:

```
Enter a character 7
Digit
```

The Windows taskbar at the bottom is identical to the first screenshot, showing the same set of application icons and the system clock at '10:41 AM 23-Jul-24'.



```
TC
Enter a character Y
Upper case char
```

<b>getch()</b>	<b>getche()</b>	<b>getchar()</b>
Reads single char	Reads single char	Reads single char
Entered char is not visible	char is visible	char is visible
Not waiting for enter key	Not waiting for enter key	Waiting for enter key
Belongs to <b>conio.h</b>	Belongs to <b>conio.h</b>	Belongs to <b>stdio.h</b>
char not changeable	char not changeable	char changeable

**Note:** All the above functions returns ASCII value(int) of reading character.

**isupper(), islower(), isdigit(), isspace():**



**They are used to check the given character is upper / lower/  
digit / space.**

**Lower to upper / Upper to lower conversion:**