

CONDITIONAL CONTROL STATEMENTS:

1. IF:

It is a decision making statement.

It is used to check the given condition / expression is true or false.

If condition is true then only if allows to execute the statements related to if block { }.

Note: In C other than 0 anything is 1 i.e. true.

We are having 4 types of if conditions.

1.Simple if

2.If..else

3.If..else if ladder

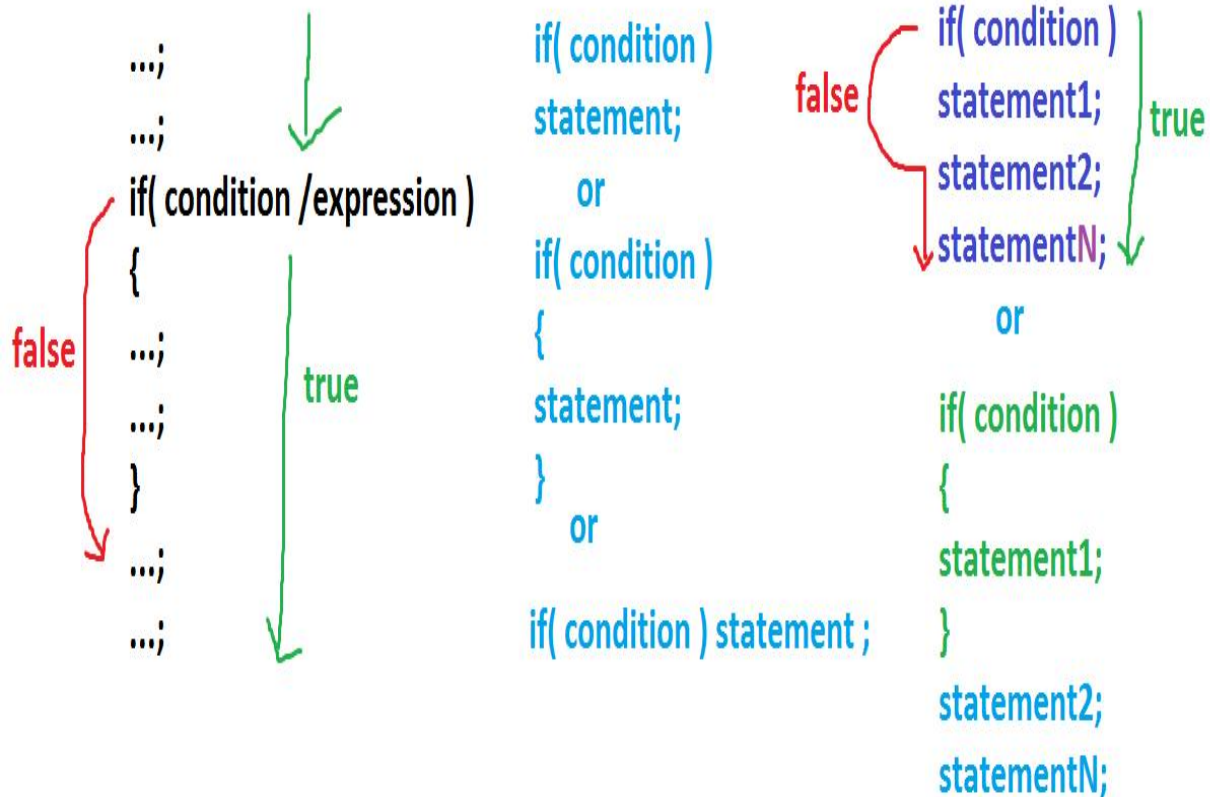
4.Nested if

Simple if:

When the program is having only one condition then go for simple if.

If condition true statements in if block { } are executed and later outside statements also executed.

If condition false only the outside statements are executed.



TC

File Edit Run Compile Project Options Debug Break/watch

Error: Expression syntax in function main

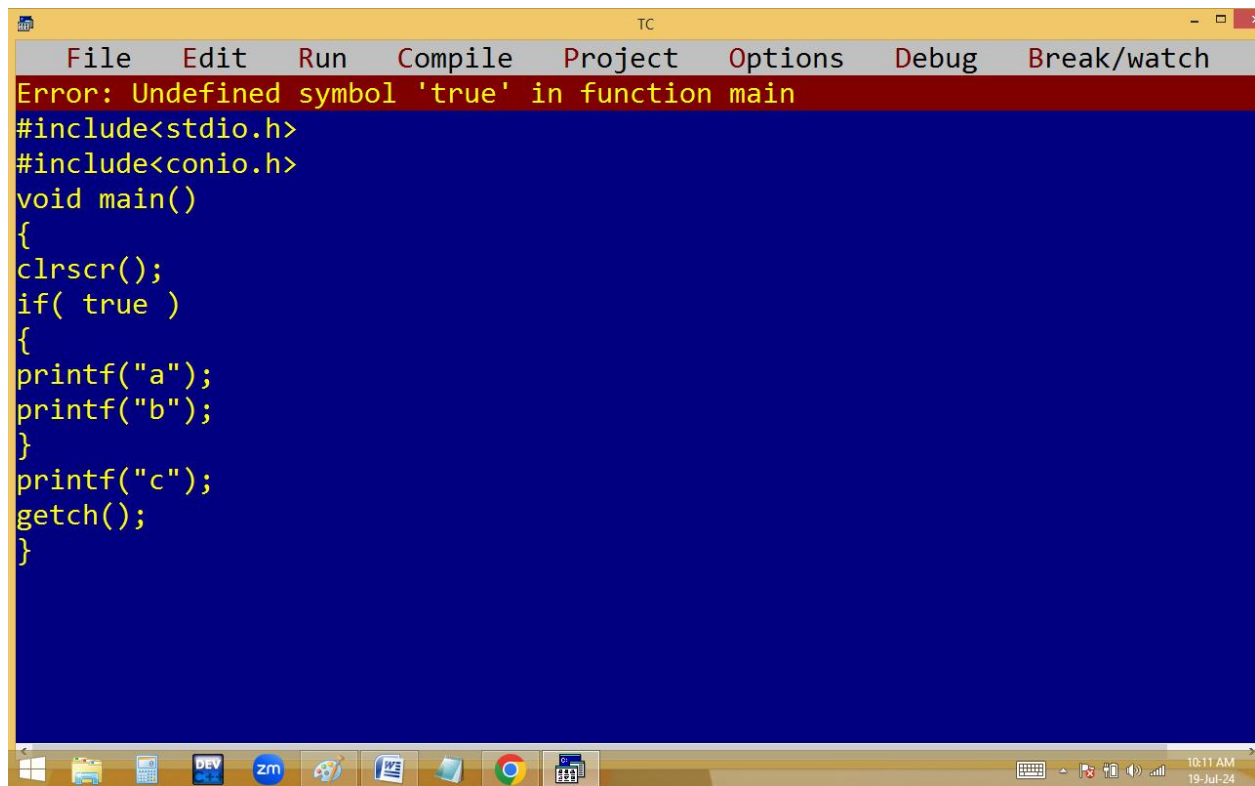
```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( )
{
printf("a");
printf("b");
}
printf("c");
getch();
}
```

TC

File Edit Run Compile Project Options Debug Break/watch

Error: Expression syntax in function main

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( if(1>1) )
{
printf("a");
printf("b");
}
printf("c");
getch();
}
```



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: Undefined symbol 'true' in function main". Below the banner, the source code is displayed on a dark blue background with yellow text. The code includes headers for `stdio.h` and `conio.h`, and defines a `main` function. Inside `main`, it calls `clrscr()`, uses an `if` statement with the condition `true`, prints "a" and "b", prints "c", and calls `getch()`. The Windows taskbar at the bottom shows various icons including the Start button, File Explorer, DEV C++, Zoom, and Google Chrome, along with the system clock showing 10:11 AM on 19-Jul-24.

```
File Edit Run Compile Project Options Debug Break/watch
Error: Undefined symbol 'true' in function main
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( true )
{
printf("a");
printf("b");
}
printf("c");
getch();
}
```

TC

File Edit Run Compile Project Options Debug Break/watch

Error: Illegal use of floating point in function main

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 5.0%2.0 )
{
printf("a");
printf("b");
}
printf("c");
getch();
}
```

TC

File Edit Run Compile Project Options Debug Break/watch

Error: Division by zero in function main

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 5%0 )
{
printf("a");
printf("b");
}
printf("c");
getch();
}
```

TC

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Line 7 Col 8 Insert Indent Tab Fill Unindent * E:9AM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 'a' )
{
printf("a");
printf("b");
}
printf("c");
getch();
}
/* abc */
```

TC

File Edit Run Compile Project Options Debug Break/watch

Line 7 Col 7 Insert Indent Tab Fill Unindent * E:9AM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( '0' )
{
printf("a");
printf("b");
}
printf("c");
getch();
}
/* abc */
```

TC

File Edit Run Compile Project Options Debug Break/watch

Line 14 Col 4 Insert Indent Tab Fill Unindent * E:9AM.C

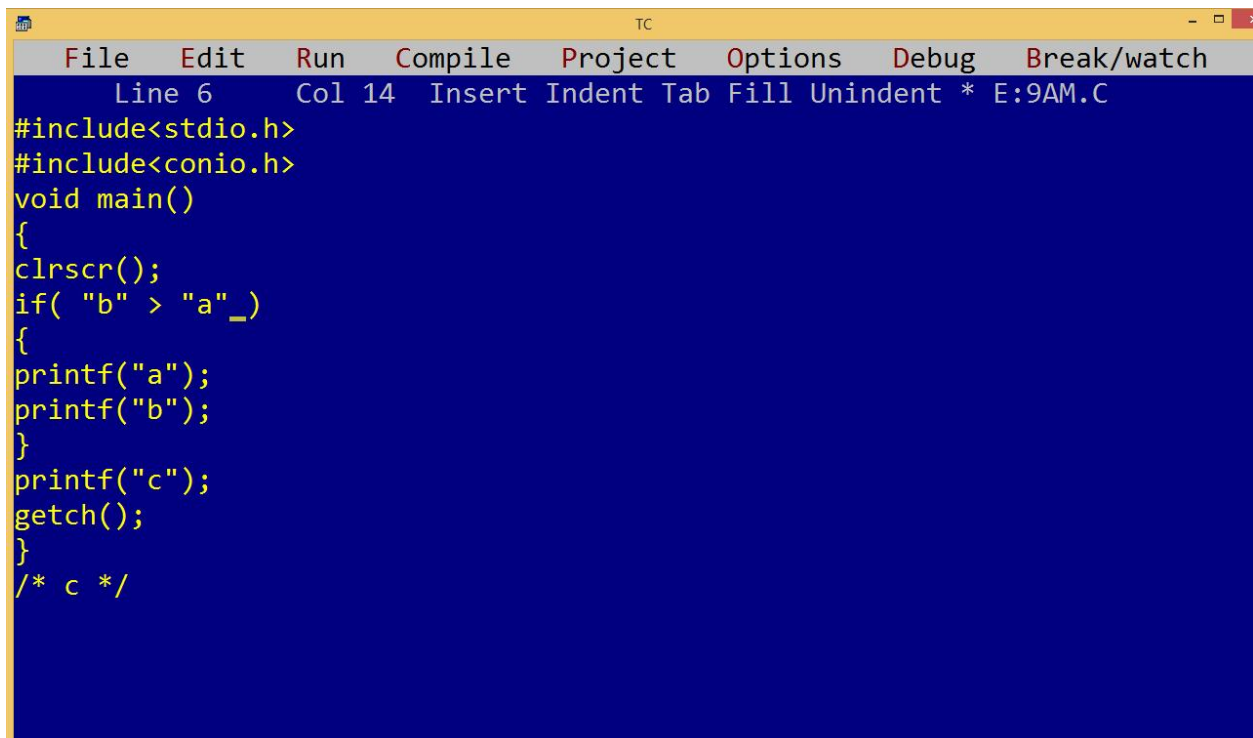
```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 0 )
{
printf("a");
printf("b");
}
printf("c");
getch();
}
/* c */
```

TC

File Edit Run Compile Project Options Debug Break/watch

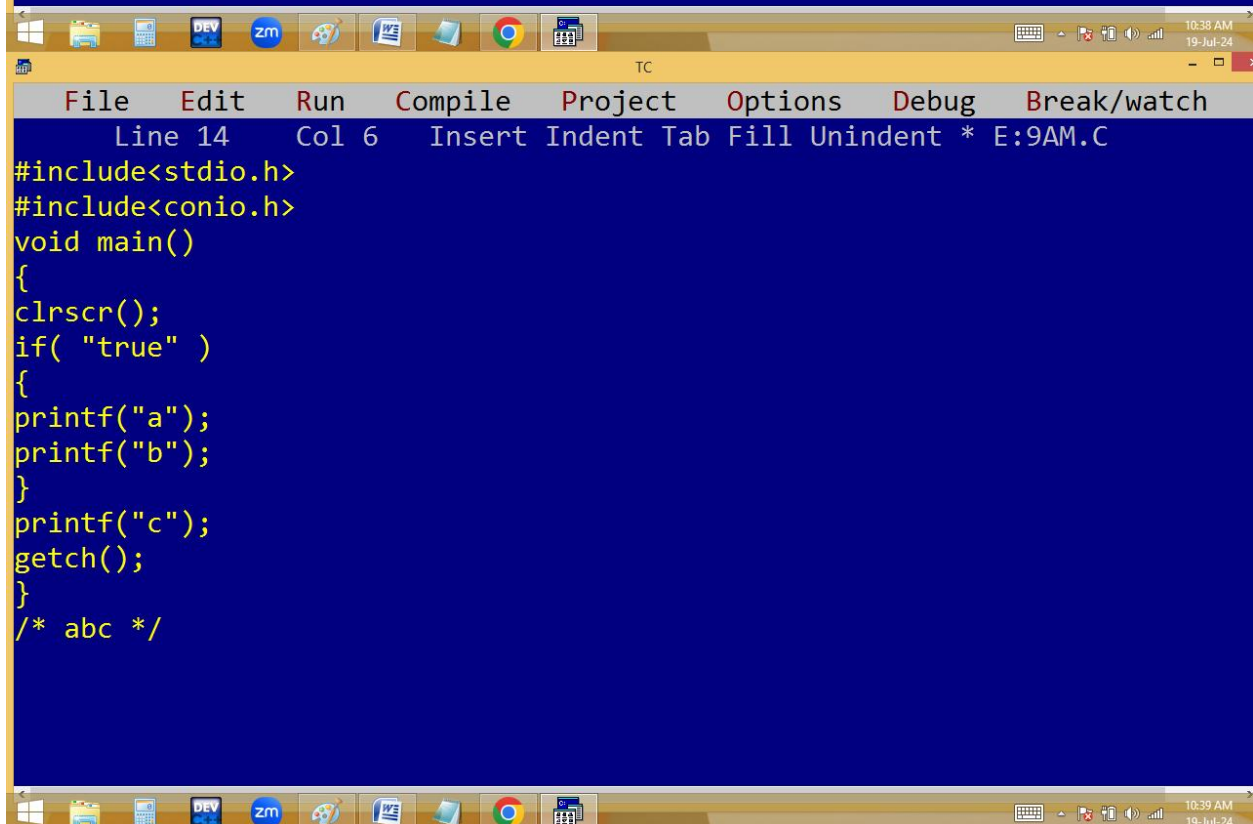
Line 8 Col 12 Insert Indent Tab Fill Unindent * E:9AM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 'a'/'b' )
{
printf("a");
printf("b");
}
printf("c");
getch();
}
/* c */
```

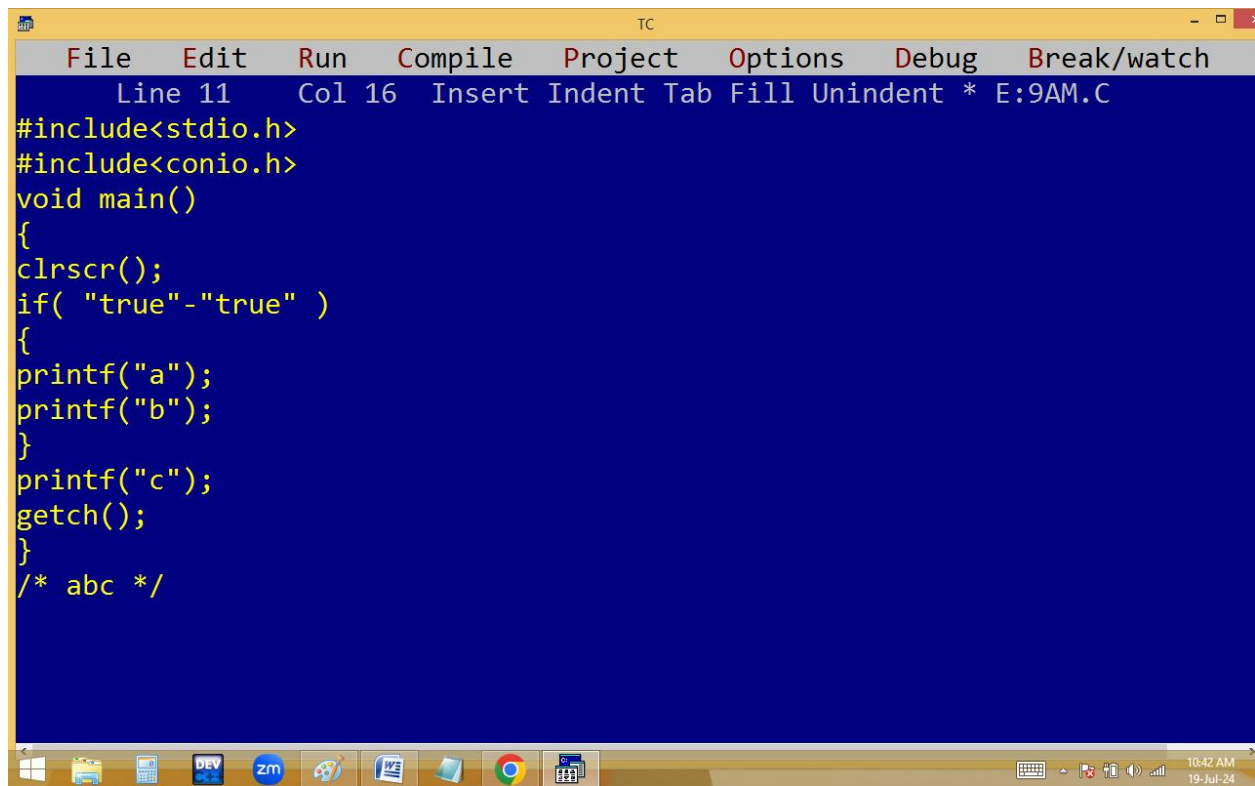
The screenshot shows the Turbo C++ IDE with a menu bar (File, Edit, Run, Compile, Project, Options, Debug, Break/watch) and a status bar (Line 6, Col 14, Insert, Indent, Tab, Fill, Unindent, *, E:9AM.C). The code in the editor is as follows:

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( "b" > "a"_)
{
printf("a");
printf("b");
}
printf("c");
getch();
}
/* c */
```



The screenshot shows the Turbo C++ IDE with a menu bar (File, Edit, Run, Compile, Project, Options, Debug, Break/watch) and a status bar (Line 14, Col 6, Insert, Indent, Tab, Fill, Unindent, *, E:9AM.C). The code in the editor is as follows:

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( "true" )
{
printf("a");
printf("b");
}
printf("c");
getch();
}
/* abc */
```

```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 16 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( "true"-"true" )
{
printf("a");
printf("b");
}
printf("c");
getch();
}
/* abc */
```

10:42 AM
19-Jul-24