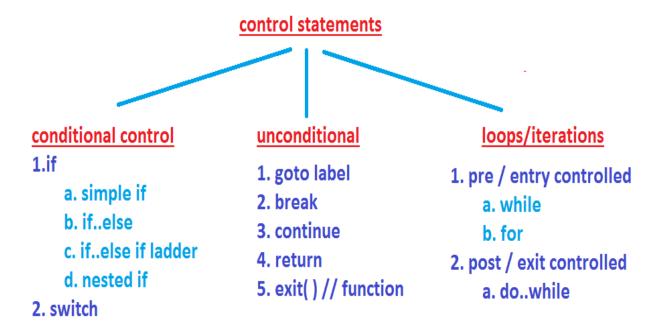
CONTROL STATEMENTS / CONTROL STRUCTURES

They are used to control program execution order [flow]. In c language we are using the following control statements.



<u>if condition control statement</u>: it is used to check the given condition / expression is true or false.

It is a decision making statement.

Note: In c compiler 0 means false and other than 0 anything is 1 i.e. true.

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 outer statements also executed.

If condition false only the outside statements are executed.

```
if( condition )
statement;
or
if( condition )
statement;
statement2;
statementN;

false

if( condition )
statement1;
statementN;

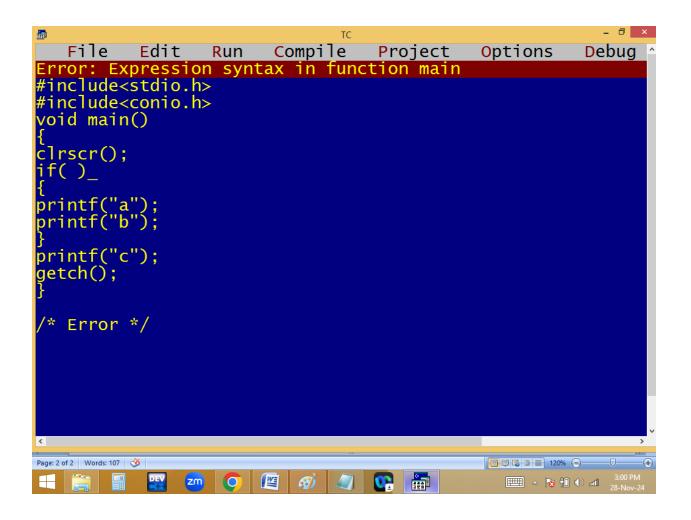
false

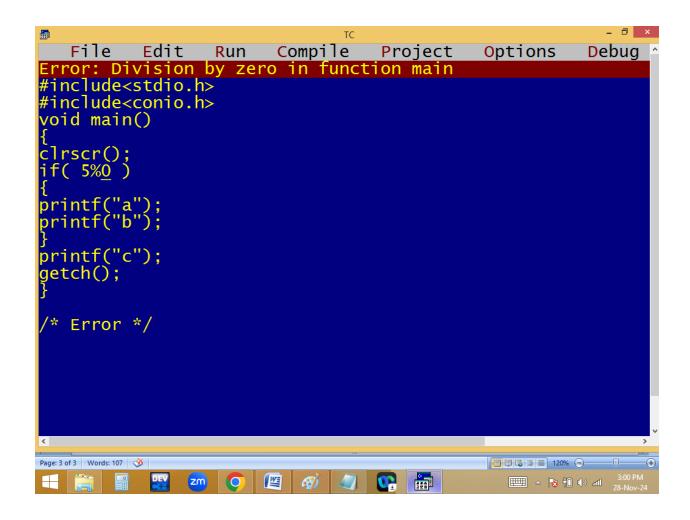
if( condition )
statement1;
statementN;

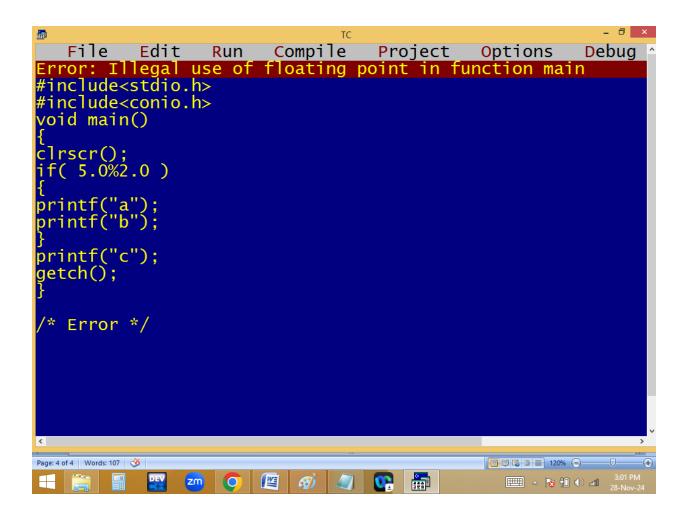
or
if( condition )
statement1;
statementN;

if( condition )
statement1;
statementN;

or
statement1;
}
statement1;
statement1;
statement1;
statement1;
statement1;
statement1;
statement1;
```







```
File Edit Run Compile Project Options Debug

Error: Expression syntax in function main

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

/* Error */
```

```
File Edit Run Compile Project Options Debug
Line 15 Col 5 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 5/6 )
{
printf("a");
printf("b");
}
printf("c");
getch();
}

/* c_*/

Eliman File Edit Run Compile Project Options Debug
Line 15 Col 5 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#inclu
```

```
File Edit Run Compile Project Options Debug
Line 15 Col 6 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 5.0/6 )
{
printf("a");
printf("b");
}
printf("c");
getch();
}

/* abc */

File Edit Run Compile Project Options Debug
Line 15 Col 6 Insert Indent Tab Fill Unindent * E
#include<conio.h>
#include<conio.h

#include<conio.h

#include<conio.h

#include<conio.h

#include<conio.h

#include<conio.h

#include<conio.h

#include<conio.h

#include<
```

```
File Edit Run Compile Project Options Debug
Line 15 Col 18 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 'a'%'b' )
{
printf("a");
printf("b");
}
printf("c");
getch();
}

/* abc */

Eliman File Edit Run Compile Project Options Debug
Line 15 Col 18 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<stdio.h>
#include<stdio.h>
#include<stdio.h>
#include<stdio.h>
#include<stdio.h>
#include<stdio.h>
#include<stdio.h>
#include<stdio.h>
#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include<t
```

```
File Edit Run Compile Project Options Debug
Line 6 Col 25 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if(2>='2') /* 2>=50 */
{
printf("a");
printf("b");
}
printf("c");
getch();
}
/* c */
```

```
File Edit Run Compile Project Options Debug
Line 15 Col 6 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( '0' ) /* 48 */
{
printf("a");
printf("b");
}
printf("c");
getch();
}

/* abc */

Eliman File Edit Run Compile Project Options Debug
Line 15 Col 6 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#include#
```

```
File Edit Run Compile Project Options Debug
Line 13 Col 7 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if("");
printf("a");
printf("b");
}
printf("c");
getch();
}

/* abc */
```

```
File Edit Run Compile Project Options Debug
Line 15 Col 4 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( "abc">"ab" )
{
printf("a");
printf("b");
}
printf("c");
getch();
}

/* c */
```

```
File Edit Run Compile Project Options Debug
Line 7 Col 2 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( "a" > 'a' )
{
printf("a");
printf("b");
}
printf("c");
getch();
}

/* abc */

Elilan F. Zoom F6 Switch F7 Trace F8 Ston F0 Make F1

Elilan F. Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F. Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F. Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F. Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F. Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F. Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F. Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F0 Make F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F1

Elilan F1 Zoom F6 Switch F7 Trace F2 Ston F1

Elilan F1 Zoom F6 Switch F7

Elilan F1 Zoom F6 Swit
```

```
File Edit Run Compile Project Options Debug
Line 15 Col 5 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( sizeof("a") > printf("a"))
{
printf("a");
printf("b");
}
printf("c");
getch();
}
/* aabc */

Illala FF 700m F6 Switch F7 Trace F8 Ston F0 Make F1

Illala FF 700m F6 Switch F7 Trace F8 Ston F0 Make F1

Illala FF 700m F6 Switch F7 Trace F8 Ston F0 Make F1

Illala FF 700m F6 Switch F7 Trace F8 Ston F0 Make F1

Illala FF 700m F6 Switch F7 Trace F8 Ston F0 Make F1

Illala FF 700m F6 Switch F7 Trace F8 Ston F0 Make F1

Illala FF 700m F6 Switch F7 Trace F8 Ston F0 Make F1
```

```
File Edit Run Compile Project Options Debug
Line 16 Col 3 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
int a=0;
clrscr();
if( a++ )
{
printf("a");
printf("b");
}
printf("c");
getch();
}

/* c */
```

```
File Edit Run Compile Project Options Debug

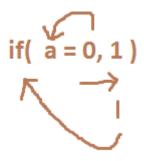
Line 16 Col 6 Insert Indent Tab Fill Unindent * E

#include<stdio.h>
#include<conio.h>
void main()

{
int a;
clrscr();
if( a=0,1 )
{
printf("a");
printf("b");
}
printf("c");
getch();
}

/* abc */

** abc */
```



```
File Edit Run Compile Project Options Debug
Line 12 Col 17 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
int a=0,b=1,c=2;
clrscr();
if(a=1)++a, ++b; c=a+b;
printf("a=%d, b=%d, c=%d",a,b,c);
getch();
}

/* a=2, b=2, c=4 */

**Include<conio.h>
**Conio.h>
**C
```

```
File Edit Run Compile Project Options Debug
Line 12 Col 17 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
int a=0,b=1,c=2;
clrscr();
if( a=a++ )++a; ++b; c=a+b;
printf("a=%d, b=%d, c=%d",a,b,c);
getch();
}

/* a=0, b=2, c=2 */

**Include<conio.h>
**Conio.h>
**Conio.h
```

```
Run Compile
                                                       Debug
   File Edit
                                 Project Options
                 Col 22 Insert Indent Tab Fill Unindent *
      Line 12
#include<stdio.h>
#include<conio.h>
void main()
char a=65,b=66,c=a+b;
clrscr();
if( c>=131 )++a; ++b;
printf("a=%d, b=%d, c=%d",a,b,c);
getch();
/* a=65, b=67, c=-125_ */
                                      3:53
   256 characters - 256 ASCII values
                  char cycle
                                                     0 - 255
                                       unsigned char
a = 65
                                                        256
b=66
                      -125
                                   131
                                                        -131
            130
c = 131
                                  -128 + 3 = -125
          129 -127
                                                        -125
                            -2
                                     3
         128 -128
                      %с
                              0
              127
                             1
               126
```