```
File
                        Edit
                                         Run
                                                        Compile
                                                                                Project
                                                                                                         Options
                                                                                                                                 Debug
                                                                                                                                                     Break/watch
              Line 1
                                         Col 1
                                                             Insert Indent Tab Fill Unindent
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
void main()
start:
textcolor(random(16));
textbackground(random(16));
cprintf("KishorE");
goto start:
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```

if: It is a decision making statement.

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

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

Note: When single statement is there { } are optional.

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

We are using 4 type of if conditions.

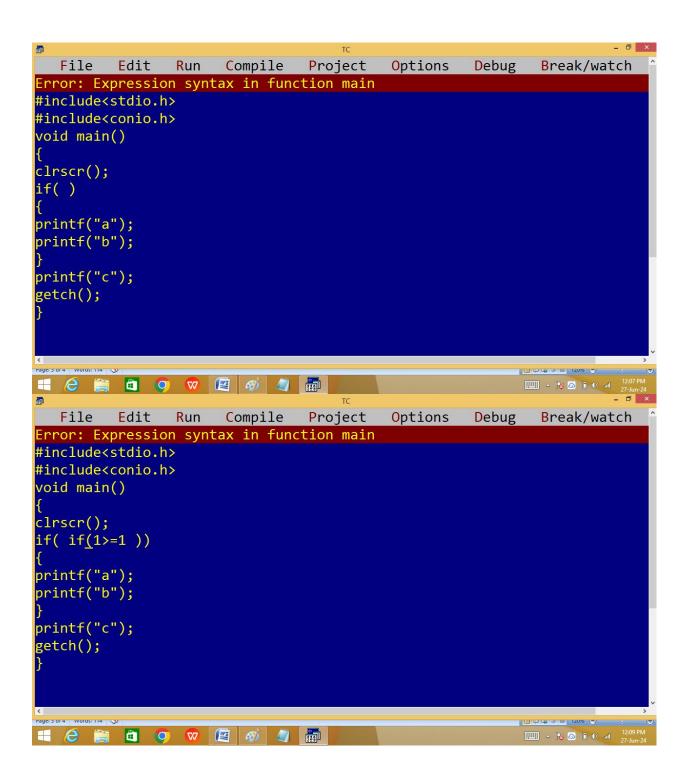
- 1. Simple if
- 2. If..else
- 3. If..else if ladder
- 4. Nested if

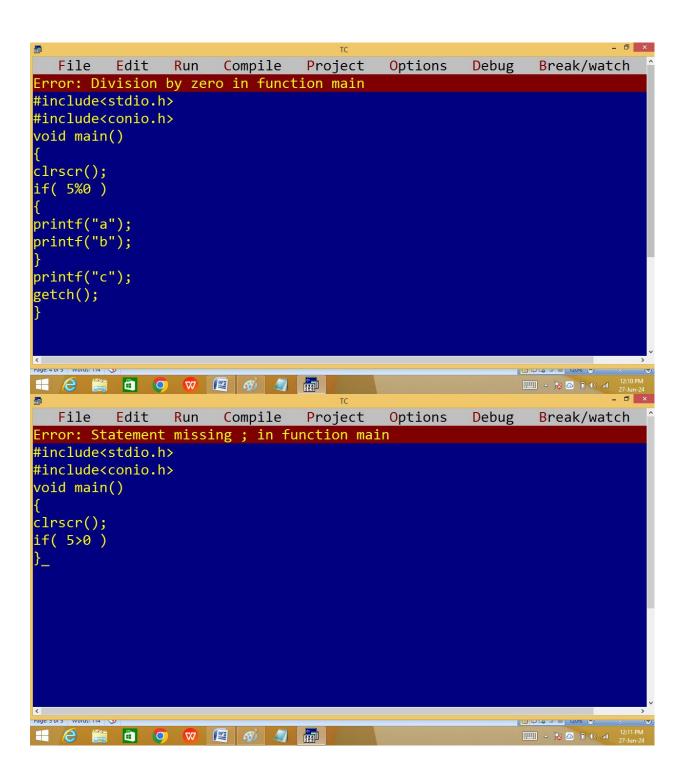
Simple if: when the program is having one option/condition then go for simple if.

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

If condition false only the outside statements executed.

```
if( condition )
                                         if(condition)
          ...;
                                                          false
                                                                      statement1;
                                         statement;
          ...;
                                                                                       true
                                                                      statement2;
          if( condition / expression )
                                            or
                                                                     statementN;
                                         if( condition )
                                                                          or
false
                      true
                                                                     if( condition )
                                         statement;
                                                                     statement1;
                                             or
                                         if( condition) statement;
          ...;
                                                                     statement2;
                                                                     statementN;
```





```
Compile Project Options Debug Break/watch
  File Edit
            Run
            Col 19 Insert Indent Tab Fill Unindent * E:11AM.C
    Line 9
#include<stdio.h>
#include<conio.h>
void main()
clrscr();
if(5>0)
getch();
/* blank screen */
File Edit Run Compile Project Options Debug Break/watch
            Col 11 Insert Indent Tab Fill Unindent * E:11AM.C
    Line 7
#include<stdio.h>
#include<conio.h>
void main()
clrscr();
if( 5>0 );
getch();
/* blank screen */
```

```
Compile Project Options Debug Break/watch
  File Edit
             Run
             Col 11 Insert Indent Tab Fill Unindent * E:11AM.C
    Line 6
#include<stdio.h>
#include<conio.h>
void main()
clrscr();
if( 5>0 );;
getch();
/* blank screen */
File Edit Run Compile Project Options Debug Break/watch
    Line 11
             Col 13 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
void main()
int main=3;
clrscr();
if( main )printf("Hello\n");
printf("Bye");
getch();
/* Hello Bye */
```

```
File Edit
              Run Compile Project Options Debug Break/watch
     Line 11
              Col 4
                    Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
void main()
int main=3;
clrscr();
if( main%main )printf("Hello\n");
printf("Bye");
getch();
/* Bve */
File Edit Run Compile Project Options
                                           Debug Break/watch
Error: Type mismatch in redeclaration of 'main' in function main
#include<stdio.h>
#include<conio.h>
void main()
int main()=3;
clrscr();
if( 3 )printf("Hello\n");
printf("Bye");
getch();
/* Error */
```

```
File Edit Run Compile Project Options Debug Break/watch

Line 8 Col 24 Insert Indent Tab Fill Unindent E:11AM.C

#include<stdio.h>
#include<conio.h>
void main()
{
if( 1 )printf("Hello\n");
main(); /* Recursion */
}
/* Hello infinite times_*/
```

```
File Edit Run
                  Compile Project Options Debug Break/watch
           Col 18 Insert Indent Tab Fill Unindent E:11AM.C
#include<stdio.h>
#include<conio.h>
void main()
if( 0 )printf("Hello\n");
main(); /* Recursion */
/* infinite blank */
- R - R - R - R
File Edit Run Compile Project Options Debug Break/watch
                    Insert Indent Tab Fill Unindent * E:11AM.C
     Line 9
             Col 9
#include<stdio.h>
#include<conio.h>
void main()
clrscr();
if( '0' )printf("Hello\n");
getch();
/* Hello */
12:34 P
```

```
File Edit Run Compile Project Options Debug Break/watch

Line 10 Col 7 Insert Indent Tab Fill Unindent * E:11AM.C

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

```
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("Hello\n");
printf("Bye");
getch();
/* Error */
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 )printf("Hello\n");
printf("Bye");
getch();
/* Error */
12:36 P
```

