

TC

File Edit Run Compile Project Options Debug Break/watch

Line 13 Col 30 Insert Indent Tab Fill Unindent * E:2PM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
int age; char gen;
clrscr();
printf("Enter person age and gender "); scanf("%d %c",&age, &gen);
if(gen=='m'||gen=='M'||gen=='f'||gen=='F')
{
if(age>=21|| ( gen=='f' || gen=='F') && age>=18) puts("Eligible");
else puts("Not Eligible");
}
else puts("invalid gender");
getch();
}
```

Activate Windows
Go to PC settings to activate Windows.

TC

2:19 PM
02-Sep-23

```
Enter person age and gender 23 g
invalid gender
```

Activate Windows
Go to PC settings to activate Windows.

2:19 PM
02-Sep-23

```
TC
Enter person age and gender 32 t
invalid gender

Activate Windows
Go to PC settings to activate Windows.

Windows Taskbar icons: Start, File Explorer, Google Chrome, VLC Media Player, Microsoft Word, Paint, Snipping Tool, File Explorer, DEV, Zoom, File Explorer, File Explorer
2:19 PM
02-Sep-23

TC
Enter person age and gender 23 m
Eligible

Activate Windows
Go to PC settings to activate Windows.

Windows Taskbar icons: Start, File Explorer, Google Chrome, VLC Media Player, Microsoft Word, Paint, Snipping Tool, File Explorer, File Explorer, DEV, Zoom, File Explorer, File Explorer
2:19 PM
02-Sep-23
```

```
TC
Enter person age and gender 20 f
Eligible

Activate Windows
Go to PC settings to activate Windows.

2:19 PM
02-Sep-23
```

```
TC
Enter person age and gender 15
f
Not Eligible

Activate Windows
Go to PC settings to activate Windows.

2:19 PM
02-Sep-23
```

TC

File Edit Run Compile Project Options Debug Break/watch

Error: Misplaced else in function main

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 3==3 )
printf("a");
printf("b");
else
printf("c");
printf("d");
getch();
}
/* Error */
```

Activate Windows
Go to PC settings to activate Windows.

TC

File Edit Run Compile Project Options Debug Break/watch

Line 16 Col 7 Insert Indent Tab Fill Unindent * E:2PM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 3==3 )
{
printf("a");
printf("b");
}
else
printf("c");
printf("d");
getch();
}
/* abd */
```

Activate Windows
Go to PC settings to activate Windows.

The image shows a Windows desktop environment with two Notepad windows open, both displaying the same C program. The desktop background is a blue gradient.

Top Window (Line 18 Col 2):

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 3==3 )
{
printf("a");
printf("b");
}
else
{
printf("c");
}
printf("d");
getch();
}
/* abd */
```

Bottom Window (Line 18 Col 6):

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 3==3 )
{
printf("a");
printf("b");
}
else
{
printf("c");
printf("d");
}
getch();
}
/* ab_ */
```

The taskbar at the bottom of the screen shows several pinned icons, including File Explorer, Edge browser, FileZilla, VLC media player, WinRAR, Paint, Task View, DEV (Dev Studio), Zoom, File Explorer again, and Task View again. The system tray shows the date and time as 02-Sep-23 2:24 PM.

TC

```
Error: Misplaced else in function main
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 3==3 );
{
printf("a");
printf("b");
}
else
{
printf("c");
printf("d");
}
getch();
}
/* Error */
```

Activate Windows
Go to PC settings to activate Windows.

Line 18 Col 8 Insert Indent Tab Fill Unindent * E:2PM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 3==3 )
{
printf("a");
printf("b");
}
else ;
{
printf("c");
printf("d");
}
getch();
}
/* abcd_ */
```

TC

Activate Windows
Go to PC settings to activate Windows.

2:25 PM
02-Sep-23

2:26 PM
02-Sep-23

TC

```
Error: Misplaced else in function main
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 3==3 ) else printf("a");
getch();
}
/* error */
```

Activate Windows
Go to PC settings to activate Windows.

TC

```
File Edit Run Compile Project Options Debug Break/watch
Line 9 Col 16 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 3==3 ) ; else printf("a");
getch();
}
/* Blank screen_ */
```

Activate Windows
Go to PC settings to activate Windows.

Windows Taskbar icons: File Explorer, OneDrive, Edge, VLC, Notepad, Paint, File Cabinet, DEV (highlighted), Zoom, Task View, Task Manager.

System tray icons: Keyboard, Mouse, Network, Battery, Volume, Task View, Task Manager.

TC

File Edit Run Compile Project Options Debug Break/watch

Line 9 Col 12 Insert Indent Tab Fill Unindent * E:2PM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( "true" ) printf("True") ; else printf("False");
getch();
}
/* True */
```

Activate Windows
Go to PC settings to activate Windows.

TC

File Edit Run Compile Project Options Debug Break/watch

Error: Undefined symbol 'false' in function main

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( false ) printf("True") ; else printf("False");
getch();
}
/* Error */
```

Activate Windows
Go to PC settings to activate Windows.

TC

File Edit Run Compile Project Options Debug Break/watch

Line 9 Col 8 Insert Indent Tab Fill Unindent * E:2PM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( "false" ) printf("True") ; else printf("False");
getch();
}
/* True */
```

Activate Windows
Go to PC settings to activate Windows.

TC

File Edit Run Compile Project Options Debug Break/watch

Line 9 Col 6 Insert Indent Tab Fill Unindent * E:2PM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( "" ) printf("True") ; else printf("False");
getch();
}
/* True */
```

Activate Windows
Go to PC settings to activate Windows.

2:30 PM
02-Sep-23

TC

File Edit Run Compile Project Options Debug Break/watch

Line 6 Col 12 Insert Indent Tab Fill Unindent * E:2PM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( "" - "_" ) printf("True") ; else printf("False");
getch();
}
/* True */
```

Activate Windows
Go to PC settings to activate Windows.

TC

File Edit Run Compile Project Options Debug Break/watch

Line 9 Col 8 Insert Indent Tab Fill Unindent * E:2PM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 32767+3 >= 32767 ) printf("True") ; else printf("False");
getch();
}
/* False */
```

Activate Windows
Go to PC settings to activate Windows.

```
TC
Line 14 Col 11 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
float a=1.1;
clrscr();
if( a==1.1 ) puts("True") ; else puts("False");
if( a==1.1f ) puts("True") ; else puts("False");
a=1.5;
if( a==1.5 ) puts("True") ; else puts("False");
a=1.0;
if( a==1.0 ) puts("True") ; else puts("False");
a=1.2;
if( a==1.2 ) puts("True") ; else puts("False");
getch();
}
```

Activate Windows
Go to PC settings to activate Windows.

```
Windows Taskbar icons
TC
False
True
True
True
False

Activate Windows
Go to PC settings to activate Windows.

Windows Taskbar icons
```

TC

File Edit Run Compile Project Options Debug Break/watch

Line 15 Col 1 Insert Indent Tab Fill Unindent * E:2PM.C

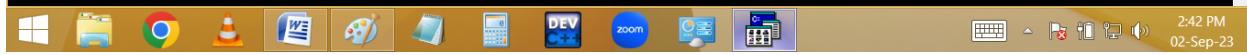
```
#include<stdio.h>
#include<conio.h>
void main()
{
float a=1.1;
double b=1.1;
clrscr();
printf("a=%10f, b=%10lf\n",a,b);
a=1.0; b=1.0;
printf("a=%10f, b=%10lf\n",a,b);
a=1.5; b=1.5;
printf("a=%10f, b=%10lf\n",a,b);
a=2.2; b=2.2;
printf("a=%10f, b=%10lf\n",a,b);
getch();
}
```

Activate Windows
Go to PC settings to activate Windows.



```
a=1.1000000238, b=1.1000000000
a=1.0000000000, b=1.0000000000
a=1.5000000000, b=1.5000000000
a=2.200000477, b=2.2000000000
```

Activate Windows
Go to PC settings to activate Windows.



TC

File Edit Run Compile Project Options Debug Break/watch
Line 7 Col 13 Insert Indent Tab Fill Unindent * E:2PM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 5 && 5 == 5 ) puts("True"); else puts("False");
if( (5 && 5) == 5 ) puts("True"); else puts("False");
getch();
}
```

Activate Windows
Go to PC settings to activate Windows.

Windows Taskbar icons: File Explorer, OneDrive, Edge, VLC, Paint, Snipping Tool, DEV, Zoom, Task View, Task Manager.

TC

True
False

Activate Windows
Go to PC settings to activate Windows.

Windows Taskbar icons: File Explorer, OneDrive, Edge, VLC, Paint, Snipping Tool, DEV, Zoom, Task View, Task Manager.

2:46 PM
02-Sep-23

2:47 PM
02-Sep-23

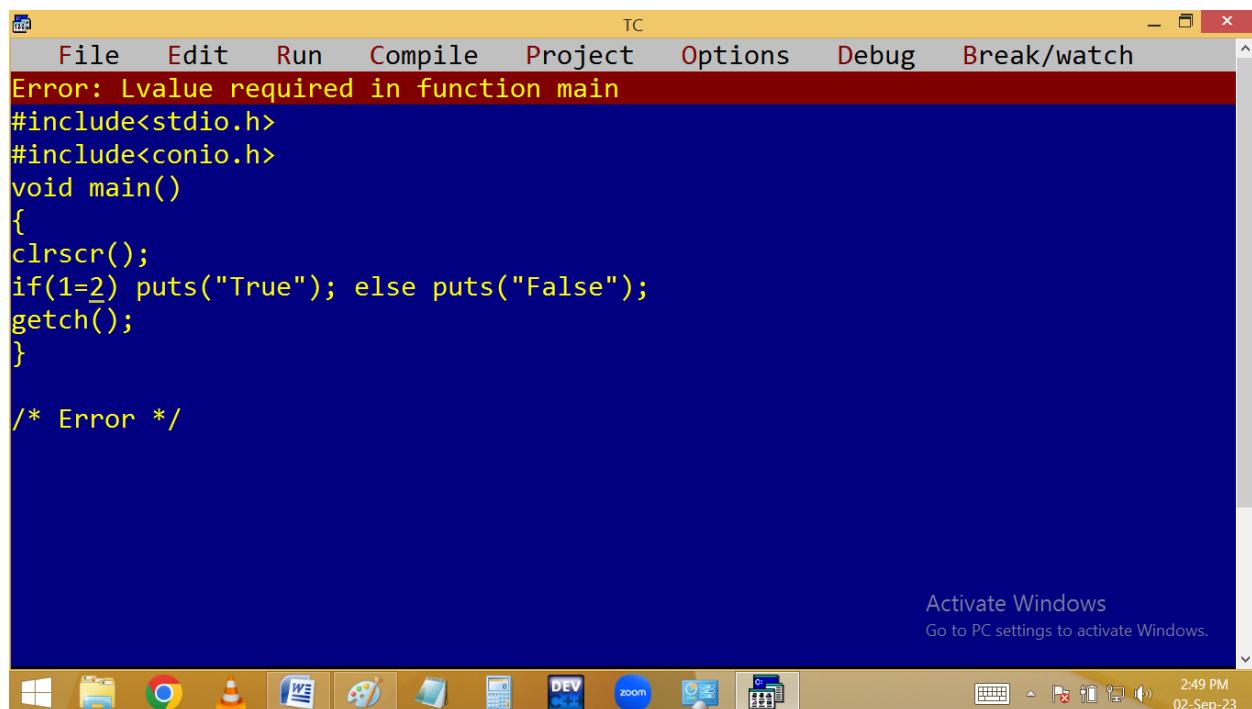
Handwritten annotations on the code:

 - A green bracket underlines the entire condition `(5 && 5)`. A green arrow points from the start of the bracket to the opening brace of the if-block.

 - A red bracket underlines the assignment `= = 5`. A red arrow points from the end of the bracket to the closing brace of the if-block.

 The code itself:


```
if( (5 && 5)== 5 ) p("True"); else p("False");
```



A screenshot of a Windows desktop environment. In the center is a terminal window titled "TC" with a dark blue background. The window displays the following text:

```

File Edit Run Compile Project Options Debug Break/watch
Error: Lvalue required in function main
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if(1=2) puts("True"); else puts("False");
getch();
}

/* Error */

```

The word "Error" is highlighted in yellow. At the bottom right of the terminal window, there is a watermark that reads "Activate Windows Go to PC settings to activate Windows." The desktop taskbar at the bottom shows various icons for common applications like File Explorer, Google Chrome, and Zoom.

TC

File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 8 Insert Indent Tab Fill Unindent * E:2PM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if(2>=scanf("%d%d")) puts("True"); else puts("False");
getch();
}

/* True */
```

Activate Windows
Go to PC settings to activate Windows.

Windows Taskbar icons: File Explorer, OneDrive, Edge, VLC, Paint, Snipping Tool, DEV, Zoom, File History, Task View, Task Manager.

TC

100 200
True

Activate Windows
Go to PC settings to activate Windows.

Windows Taskbar icons: File Explorer, OneDrive, Edge, VLC, Paint, Snipping Tool, DEV, Zoom, File History, Task View, Task Manager.

2:51 PM 02-Sep-23

2:52 PM 02-Sep-23

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if(2 == printf("1 2")) puts("True"); else puts("False");
getch();
}

/* 1 2False */
```

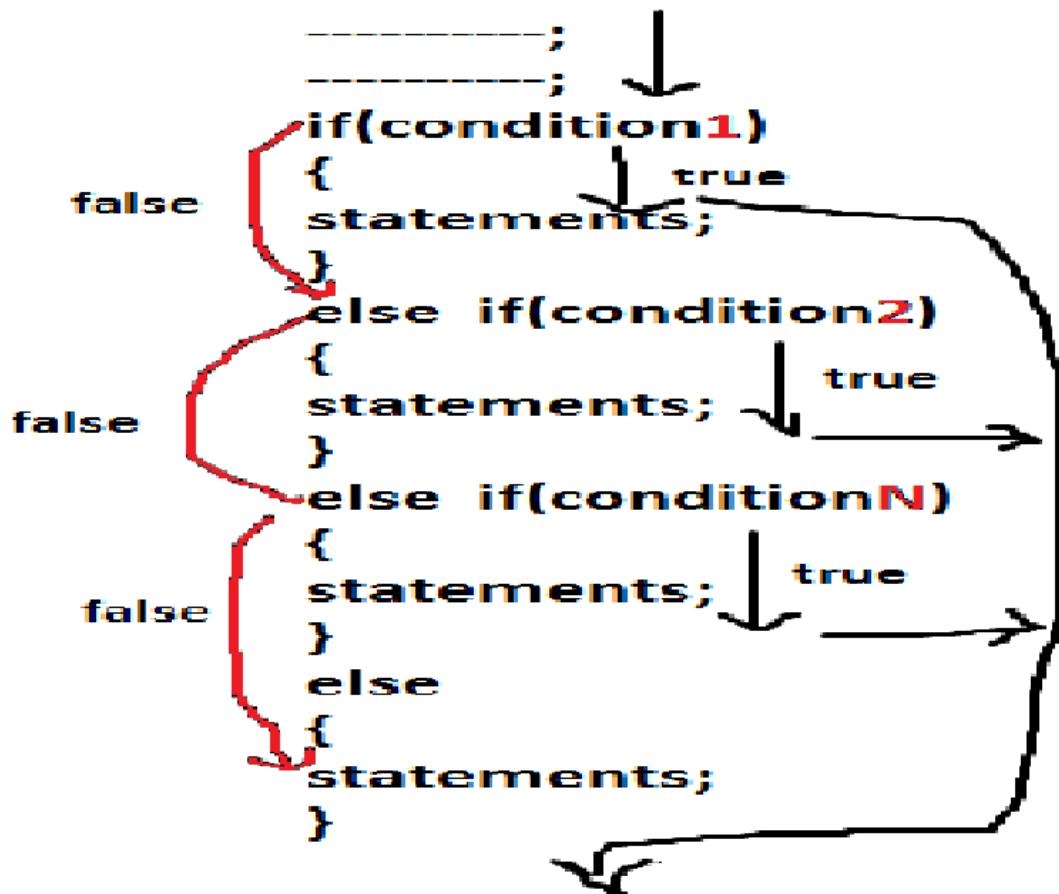
```
Error: Misplaced else in function main
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
else puts("False");
getch();
}

/* Error */
```

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 +Ve / -Ve / 0:

TC

File Edit Run Compile Project Options Debug Break/watch
Line 14 Col 1 Insert Indent Tab Fill Unindent * E:2PM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
int n;
clrscr();
printf("Enter a no "); scanf("%d",&n);
if(n>0) puts("+Ve");
else if(n<0)puts("-Ve");
else puts("Zero");
getch();
}
```

Activate Windows
Go to PC settings to activate Windows.



3:10 PM
02-Sep-23

TC

```
Enter a no 3
+Ve
```

Activate Windows
Go to PC settings to activate Windows.



3:10 PM
02-Sep-23

```
TC
Enter a no -4
-Ve

Activate Windows
Go to PC settings to activate Windows.

3:10 PM
02-Sep-23
```

```
TC
Enter a no 0
Zero

Activate Windows
Go to PC settings to activate Windows.

3:10 PM
02-Sep-23
```

Finding person stage:

0-2 babies

3-12 – child

13-17 – teenage

18-35 – adult

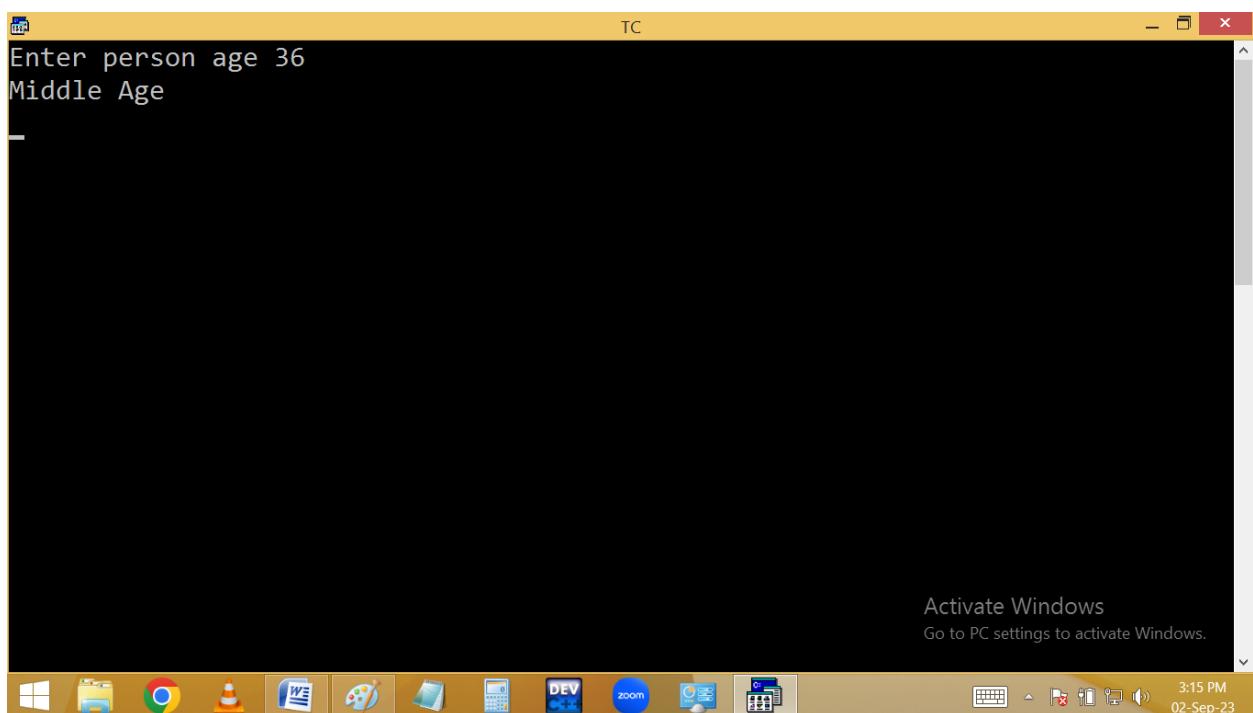
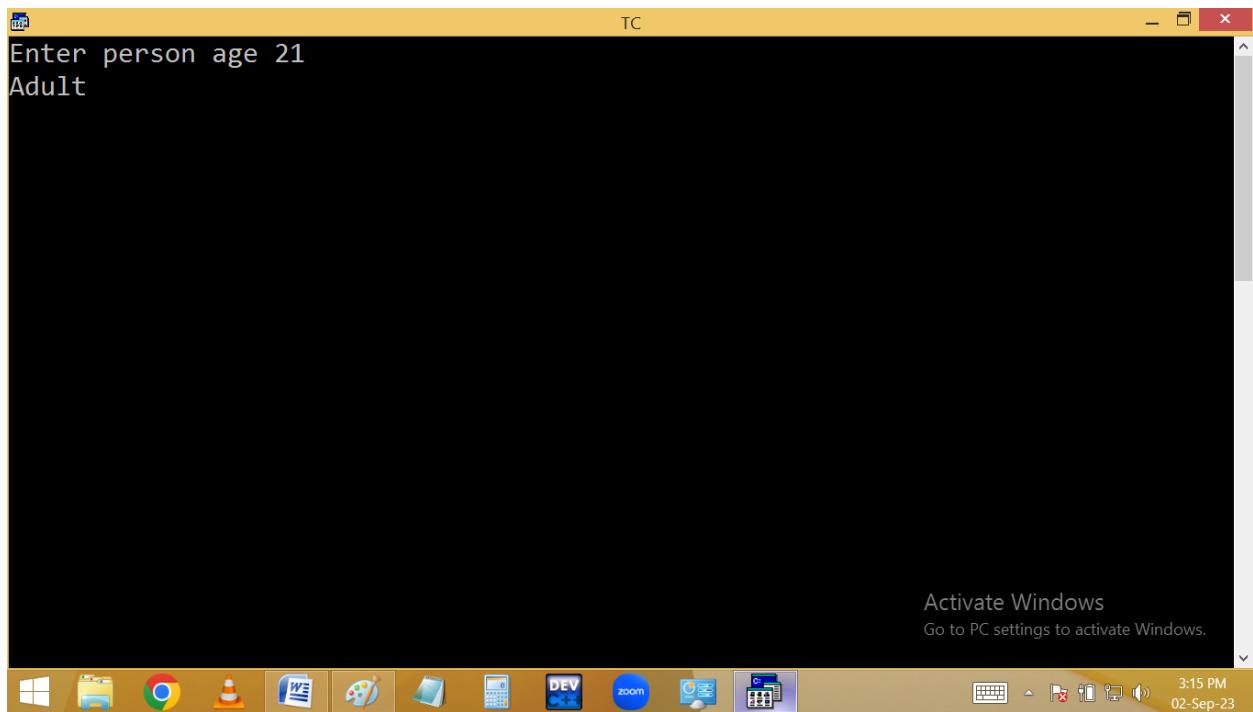
36-59 – middle aged

>=60 - senior citizen

```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 1 Col 26 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int n;
clrscr();
printf("Enter person age "); scanf("%d",&n);
if(n<3) puts("Baby");
else if(n<13)puts("Child");
else if(n<18)puts("Teenage");
else if(n<=35)puts("Adult");
else if(n<=59)puts("Middle Age");
else puts("Senior Citizen");
getch();
}
```

Activate Windows
Go to PC settings to activate Windows.

3:15 PM
02-Sep-23



```
Enter person age 1  
Baby  
-  
  
Activate Windows  
Go to PC settings to activate Windows.  
Windows Taskbar showing various icons like File Explorer, Chrome, VLC, Paint, etc. The system tray shows the date and time as 3:15 PM 02-Sep-23.
```

```
Enter person age 65  
Senior Citizen  
-  
  
Activate Windows  
Go to PC settings to activate Windows.  
Windows Taskbar showing various icons like File Explorer, Chrome, VLC, Paint, etc. The system tray shows the date and time as 3:16 PM 02-Sep-23.
```

Finding max in 2 numbers:

TC

File Edit Run Compile Project Options Debug Break/watch

Line 9 Col 29 Insert Indent Tab Fill Unindent * E:2PM.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("%d is big\n",a);
else printf("%d is big",b);_
getch();
}
```

Activate Windows
Go to PC settings to activate Windows.



3:18 PM
02-Sep-23

TC

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

Activate Windows
Go to PC settings to activate Windows.



3:18 PM
02-Sep-23

TC

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

Activate Windows
Go to PC settings to activate Windows.

3:18 PM
02-Sep-23

TC

```
File Edit Run Compile Project Options Debug Break/watch
Line 9 Col 26 Insert Indent Tab Fill Unindent * E:2PM.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("%d is big\n",a);
else printf("%d is big\n",b);
if(a>b)puts("a is big");
else puts("b is big");
getch();
}
```

Activate Windows
Go to PC settings to activate Windows.

3:19 PM
02-Sep-23

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

Activate Windows
Go to PC settings to activate Windows.

3:20 PM
02-Sep-23
```

```
TC
Enter a, b values 3 8
8 is big
b is big

Activate Windows
Go to PC settings to activate Windows.

3:20 PM
02-Sep-23
```

```
TC
Enter a, b values 5 1
5 is big
a is big
-
-
```

Activate Windows
Go to PC settings to activate Windows.



3:20 PM
02-Sep-23

```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 30 Insert Indent Tab Fill Unindent * E:2PM.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)puts("a is big");
else if(b>a) puts("b is big");
else puts("Both are equal");
getch();
}
```

Activate Windows
Go to PC settings to activate Windows.



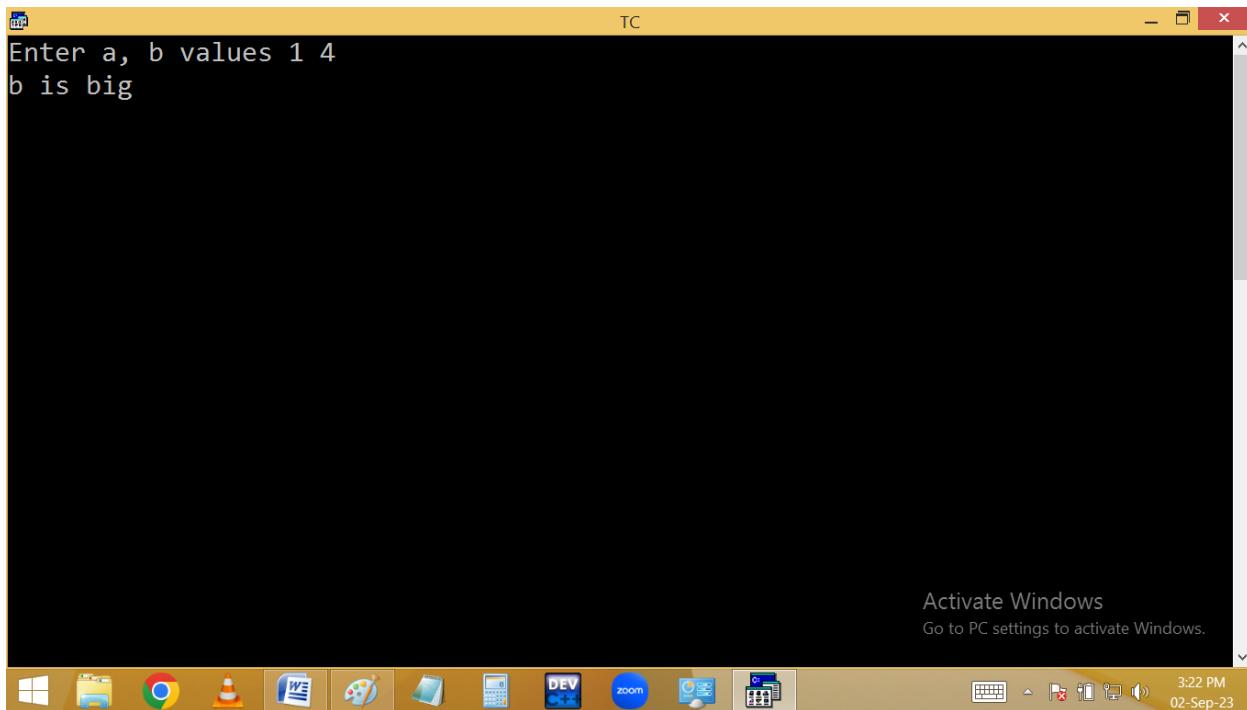
3:22 PM
02-Sep-23

```
TC
Enter a, b values 3 3
Both are equal
-
Activate Windows
Go to PC settings to activate Windows.
3:22 PM
02-Sep-23
```



```
TC
Enter a, b values 3 1
a is big
-
Activate Windows
Go to PC settings to activate Windows.
3:22 PM
02-Sep-23
```

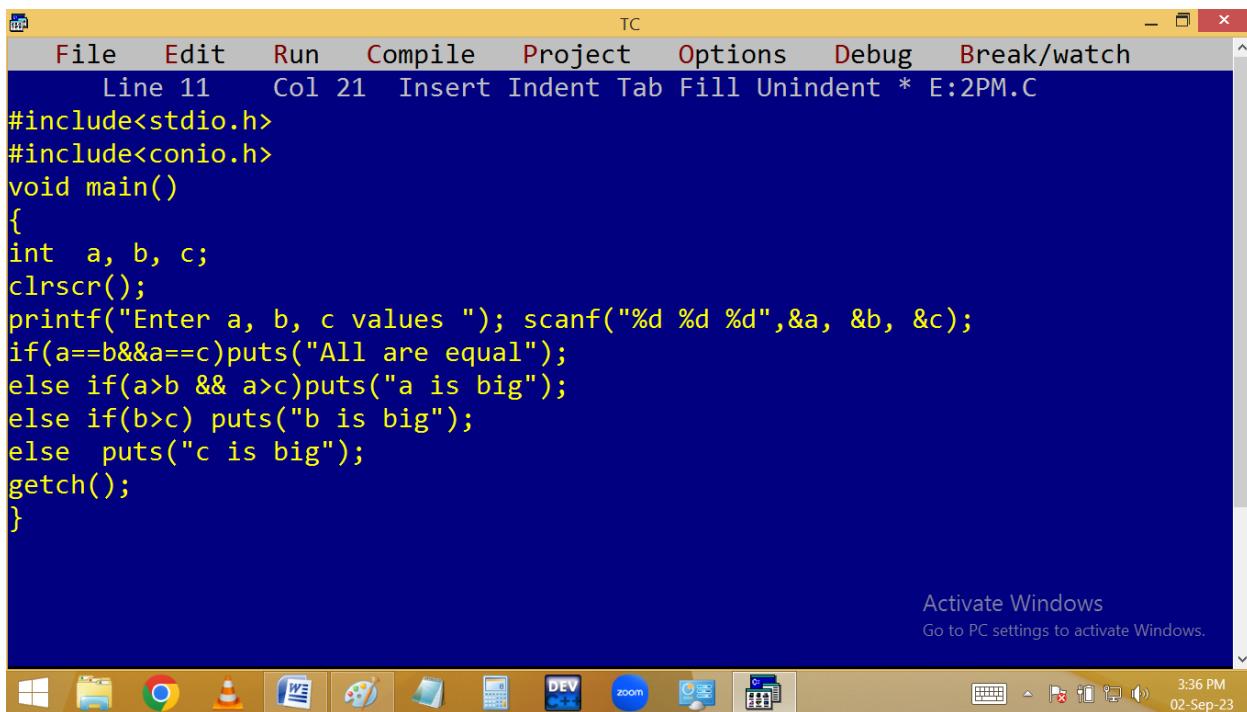




```
Enter a, b values 1 4
b is big
```

Activate Windows
Go to PC settings to activate Windows.

Finding max in 3 numbers.



```
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 21 Insert Indent Tab Fill Unindent * E:2PM.C
#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)puts("a is big");
else if(b>c) puts("b is big");
else puts("c is big");
getch();
}
```

Activate Windows
Go to PC settings to activate Windows.

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

Activate Windows
Go to PC settings to activate Windows.

3:36 PM
02-Sep-23
```

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

Activate Windows
Go to PC settings to activate Windows.

3:36 PM
02-Sep-23
```

TC

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

Activate Windows
Go to PC settings to activate Windows.



3:37 PM
02-Sep-23

TC

```
File Edit Run Compile Project Options Debug Break/watch
Line 12 Col 43 Insert Indent Tab Fill Unindent * E:2PM.C
#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)puts("a is big");
else if(a==b && a>c)puts("a & b are big");
else if(b==c && b>a)puts("b & c are big");
else if(a==c && a>b)puts("a & c are big");
else if(b>c) puts("b is big");
else puts("c is big");
getch();
}
```

Activate Windows
Go to PC settings to activate Windows.



3:39 PM
02-Sep-23

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

Activate Windows
Go to PC settings to activate Windows.

Windows Taskbar icons: File Explorer, File Manager, Google Chrome, VLC Media Player, Microsoft Word, Paint, Snipping Tool, Calculator, DEV, Zoom, File History, Task View
3:39 PM
02-Sep-23
```

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

Activate Windows
Go to PC settings to activate Windows.

Windows Taskbar icons: File Explorer, File Manager, Google Chrome, VLC Media Player, Microsoft Word, Paint, Snipping Tool, Calculator, DEV, Zoom, File History, Task View
3:40 PM
02-Sep-23
```

```
TC
Enter a, b, c values 4 1 2
a is big

Activate Windows
Go to PC settings to activate Windows.

Windows Start Chrome VLC Paint Calc DEV zoom File 3:40 PM
02-Sep-23
```