

```
1 #include <stdio.h>
2
3 //variable declaration:
4 extern int a,b;
5 extern int c;
6 extern float f;
7
8
9 int main ()
10 {
11     /*variable definition*/
12     int a,b;
13     int c;
14     float f;
15
16     /*actual initialization*/
17     a=10;
18     b=20;
19
20     c=a+b;
21     printf("Value of c:%d\n",c);
22
23     f=70.0/3.0;
24     printf("Value of f:%f\n",f);
25
26     return 0;
27 }
```

```
-cp C:\Users\TEMP.LAB3-017.019\Documents\Projects\NewFile.exe
Value of c:30
Value of f:23.333334

Process returned 0    execution time : 0.008 s
Press any key to continue.
```

```
1
2     int func();
3
4     int main()
5     {
6         //function call
7         int i=func();
8     }
9
10    //function definition
11    int func()
12    {
13        return 0;
14    }
```

### Messages

File	Line	Notification
1 NewFile1.cpp		
2 NewFile1.cpp	7	unused variable 'i'

# Falcon C++ [Running]

Edit Search View Project Run Tools Help

C:\Users\TEMP.LAB3-017.019\Documents\Projects\NewFile1.exe

Process returned 0 execution time : 0.008 s  
Press any key to continue.

## Messages

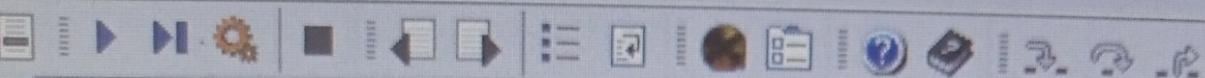
File

Line

Notification

NewFile1.cpp  
NewFile1.cpp

help



NewFile.cpp

```
1 #include <stdio.h>
2
3 int main()
4 {
5     printf("hello, world!\n");
6     return 0;
7 }
```

I

el: 0

Compilation success in 0.0469 s



e.cpp

```
1 #include <stdio.h>
2
3 int main()
```

C:\Users\user\Documents\Projects\NewFile.exe  
hello, world!

Process returned 0 execution time : 0.039 s  
Press any key to continue.

Ln:6 Col:14 Sel:0      Compilation success in 0.069 s  
Type here to search

DELL

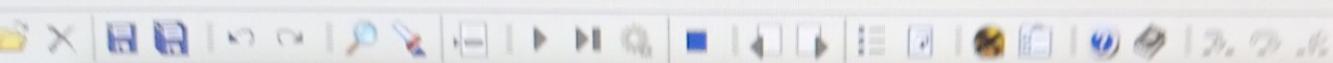
Run Tools Help

NewFile.cpp

```
1 #include <stdio.h>
2 #include <limits.h>
3 int main ()
4 {
5     printf("storage size for int :%d\n", sizeof(int));
6     return 0;
7 }
8
```

in C++ [Running]

File Search View Project Run Tools Help



Projects

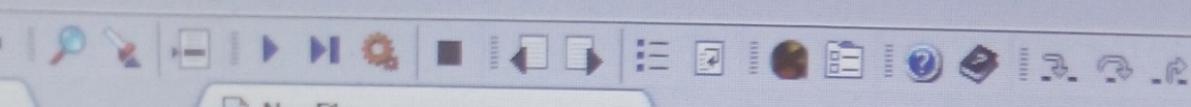
C:\Users\Student\Desktop-MBF20VQ\Documents\Projects\NewFile.exe

NewFi storage size for int :4

```
Process returned 0 execution time : 0.004 s
Press any key to continue.
```



Run Tools Help



NewFile.cpp

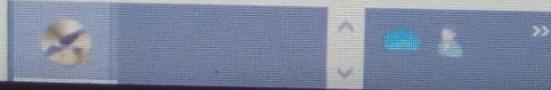
```
1 #include <stdio.h>
2
3 int main()
4 {
5     printf("hi, world!\n");
6     return 0;
7 }
```

[ ]

Col:15 Sel:0

Compilation success in 0.0516 s

search



DELL

Falcon C++ [Running]

File Edit Search View Project Run Tools Help

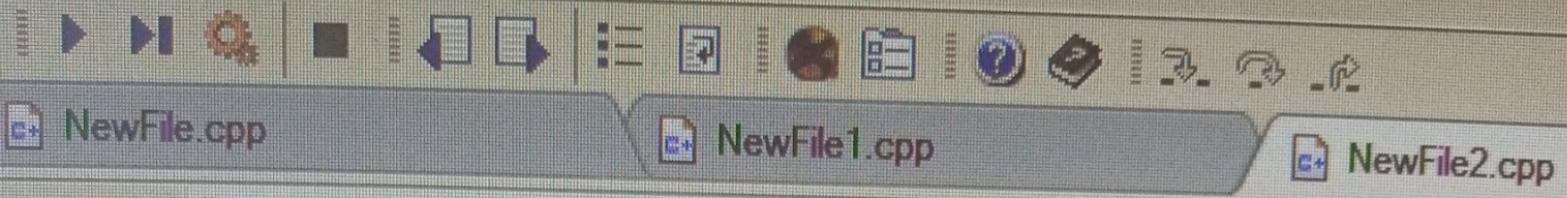
Projects C:\Users\user\Documents\Projects\NewFile.exe

NewFile.cpp hi, world!

```
Process returned 0 execution time : 0.032 s
Press any key to continue.
```

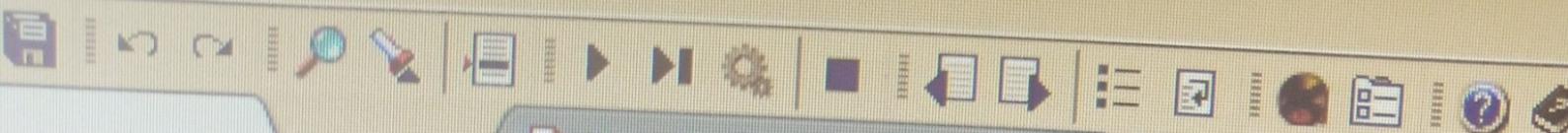
NewFile.cpp Ln:5 Col:15 Sel:0 Compilation success in 0.0516 s

Type here to search



```
1 #include <stdio.h>
2
3 #define LENGTH 10
4 #define WIDTH 5
5 #define NEWLINE '\n'
6
7 int main()
8 {
9
10
11     int area;
12
13     area=LENGTH*WIDTH;
14
15     printf("Value of area:%d",area);
16     printf("%c",NEWLINE);
17
18     return 0;
19 }
```

New Project Run Tools Help



NewFile.cpp

NewFile1.cpp

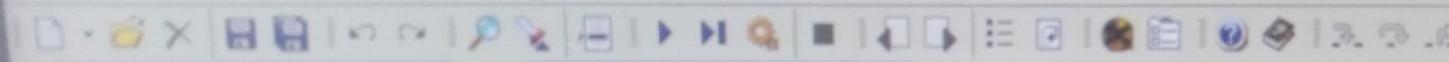
```
1 #include <stdio.h>
2
3 #define LENGTH 10
```

C:\Users\TEMP.LAB3-017.019\Documents\Projects\NewFile2.exe

Value of area:50



Process returned 0 execution time : 0.008 s  
Press any key to continue.



Projects

NewFile.cpp

```
1 #include <stdio.h>
2 #include <float.h>
3 int main ()
4 {
5     printf("storage sizefor float :%d\n",sizeof(float));
6     printf("minimum float positive value:%E\n",FLT_MIN);
7     printf("maximum float positive value:%E\n",FLT_MAX);
8     printf("precious value:%d\n",FLT_DIG);
9     return 0;
10}
11
```



Projects

NewFile.cpp

```
1 #include <stdio.h>
2 #include <float.h>
3 int main ()
```

```
C:\Users\Student.DESKTOP-MBF20VQ\Documents\Projects\NewFile.exe
```

```
storage sizefor float :4
minimum float positive value:1.175494E-038
maximum float positive value:3.402823E+038
precious value:6
```

```
Process returned 0 execution time : 0.004 s
Press any key to continue.
```



P

The screenshot shows a C++ development environment with the following components:

- Toolbar:** Standard icons for file operations (New, Open, Save, Print, Find, Copy, Paste, etc.).
- Project Explorer:** Shows a single file named "NewFile.cpp".
- Code Editor:** Displays the following C++ code:

```
1 #include <stdio.h>
2
3 main()
4 {
5     int a = 21;
6     int b = 10;
7     int c ;
8
9     c = a + b;
10    printf("line 1 - value of c is %d\n", c);
11    c = a - b;
12    printf("line 2 - value of c is %d\n", c);
13    c = a * b;
14    printf("line 3 - value of c is %d\n", c);
15    c = a / b;
16    printf("line 4 - value of c is %d\n", c);
17    c = a % b;
18    printf("line 5 - value of c is %d\n", c);
19    c = a++;
20    printf("line 6 - value of c is %d\n", c);
21    c = a--;
22    printf("line 7 - value of c is %d\n", c); |
```
- Messages:** A section titled "Messages" lists a single warning:

File	Line	Notification
NewFile.cpp	3	ISO C++ forbids declaration of 'main' with no type
- Status Bar:** Shows "Compilation success in 0.0.421 s".

# Falcon C++ [Running]

File

C:\Users\user\Documents\Projects\NewFile.exe

```
line 1 - value of c is 31
line 2 - value of c is 11
line 3 - value of c is 210
line 4 - value of c is 2
line 5 - value of c is 1
line 6 - value of c is 21
line 7 - value of c is 22
```

```
Process returned 0    execution time : 0.071 s
Press any key to continue.
```

## Messages

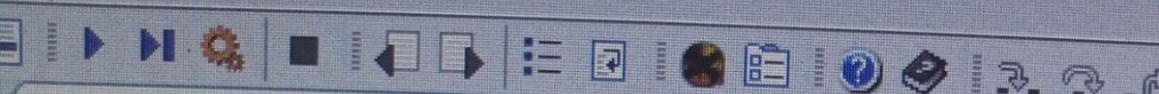
File	Line	Notification
! NewFile.cpp	3	ISO C++ forbids declaration of 'main' with

c++ NewFile.cpp

Ln:22 Col:47 Sel:0

Compilation success in 0.0 sec

elp



NewFile.cpp

```
1 #include <stdio.h>
2
3 main()
4 {
5     int a = 21;
6     int b = 10;
7     int c ;
8
9     if(a==b)
10    {
11        printf("line 1 - a is equal to b\n");
12    }
13    else
14    {
15        printf("line 1 - a is not equal to b\n");
16    }
17    if( a < b )
18    {
19        printf("line 2 - a is less than b\n");
20    }
21    else
22    {
23        printf("line 2 - a is not less than b\n");
24    }
25    if ( a > b )
26    {
27        printf("line 3 - a is greater than b\n");
28    }
29 }
```

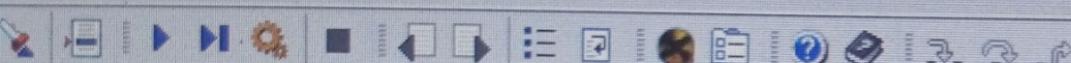
### Messages

File	Line	Notification
⚠ NewFile.cpp	3	ISO C++ forbids declaration of 'main' with no type
⚠ NewFile.cpp	7	unused variable 'c'
⚠ NewFile.cpp	29	

Compilation success in 0.0.406 s



ols Help



NewFile.cpp

```
18     {
19         printf("line 2 - a is less than b\n");
20     }
21 else
22 {
23     printf("line 2 - a is not less than b\n" );
24 }
25 if ( a > b )
26 {
27     printf("line 3 - a is greater than b\n" );
28 }
29 else
30 {
31     printf("line 3 - a is not greater than b\n" );
32 }
33 a = 5;
34 b = 20;
35 if( a <= b)
36 {
37     printf("line 4 - a is either less than or equal to b\n");
38 }
39 if( b >= a)
40 {
41     printf("line 5 - b is either greater than or equal to b\n");
42 }
43 }
```

### Messages

File	Line	Notification
NewFile.cpp	3	ISO C++ forbids declaration of 'main' with no type
NewFile.cpp		
NewFile.cpp	7	unused variable 'c'

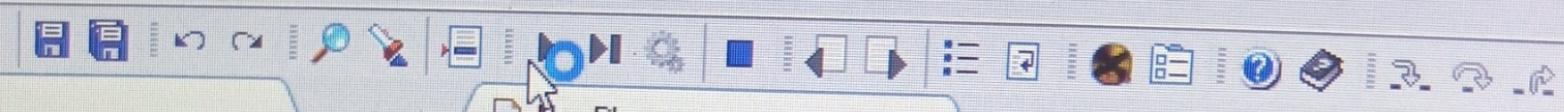
Sel : 0

Compilation success in 0.0.406 s



[Running]

Search View Project Run Tools Help



e.cpp

NewFile.cpp  
1 #include <stdio.h>  
2

C:\Users\user\Documents\Projects\NewFile.exe  
line 1 - a is not equal to b  
line 2 - a is not less than b  
line 3 - a is greater than b  
line 4 - a is either less than or equal to b  
line 5 - b is either greater than or equal to b

Process returned 0 execution time : 0.036 s  
Press any key to continue.

NewFile.cpp  
NewFile.cpp 7 unused variable 'c'

Ln:43 Col:2 Sel:0

Compilation success in 0.0406 s

Type here to search

## Help



NewFile.cpp

NewFile1.cpp

x

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int a=10;
6     if( a < 20 )
7     {
8         printf(" a is less than 20/n");
9     }
10    printf("value of a is : %d/n", a);
11    return 0;
12
13 }
```

++ [Running]

Search View Project Run Tools Help



C:\Users\Lenovo\Documents\Projects\NewFile1.exe

a is less than 20/nvalue of a is : 10/n

Process returned 0 execution time : 0.192 s

Press any key to continue.

Run Tools Help

The image shows a screenshot of a Windows operating system. At the top, there is a blue header bar with icons for Run, Tools, and Help. Below this is a toolbar with various icons. A window titled "NewFile.cpp" is open, displaying the following C++ code:

```
1 #include <stdio.h>
2 int main ()
3 {
4     int a=10;
5     if(a<20)
6     {
7
8
9         printf("is less than 20\n");
10    }
11   printf("value of a is :%d\n",a);
12   return 0;
13 }
```

The code includes an if statement that prints "is less than 20" if the variable 'a' is less than 20. The variable 'a' is initialized to 10. The code ends with a return statement. The file is saved as "NewFile.cpp".

At the bottom left, the status bar shows "1:2 Sel:0". In the bottom right, there is a message "Compilation success in 0.0625 s". The taskbar at the bottom features several pinned icons: File Explorer, Task View, Edge browser, Control Panel, Mail, OneDrive, Microsoft Store, and File Explorer again.

## Falcon C++ [Running]

File C:\Users\Lenovo\Documents\Projects\NewFile1.exe

is less than 20  
value of a is :10



Process returned 0 execution time : 0.061 s  
Press any key to continue.

```
1 #include <stdio.h>
2 int main(int argc, char** argv)
3 {
4     int a=10;
5     while (a<20)
6     {
7         printf("value of a:%d\n",a);
8         a++;
9     }
10    return 0;
11 }
```

```
1 #include <stdio.h>
2 int main(int argc, char** argv)
3 {
```

C:\Users\Lenovo\Documents\Projects\NewFile2.exe

```
value of a:10
value of a:11
value of a:12
value of a:13
value of a:14
value of a:15
value of a:16
value of a:17
value of a:18
value of a:19
```

Process returned 0 execution time : 0.034 s  
Press any key to continue.

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int a = 100;
6     int b = 200;
7
8     printf("Before swap, value of a : %d\n", a);
9     printf("Before swap, value of b : %d\n", b);
10
11    printf("After swap, value of a : %d\n", a);
12    printf("After swap, value of b : %d\n", b);
13    return 0;
14 }
```

Falcon C++ [Running]

File C:\Users\user\Documents\Projects\NewFile.exe

```
Before swap, value of a : 100
Before swap, value of b : 200
After swap, value of a : 100
After swap, value of b : 200

Process returned 0 execution time : 0.079 s
Press any key to continue.
```

NewFile.cpp

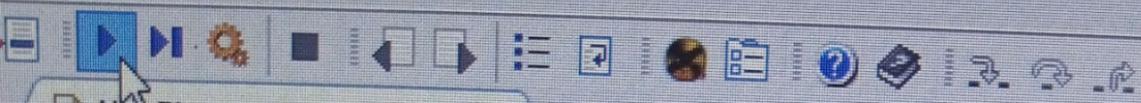
Ln:9 Col:49 Sel:0

Compilation success in 0.0469 s



Type here to search

Help

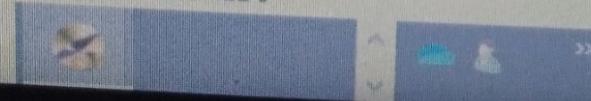


NewFile.cpp

```
1 #include <stdio.h>
2
3 int main()
4 {
5
6     int a, b;
7     int c;
8
9     a = 10;
10    b = 20;
11    c = a + b;
12    printf("value of a = %d, b = %d and c = %d\n", a, b, c);
13    return 0;
14
15 }
```

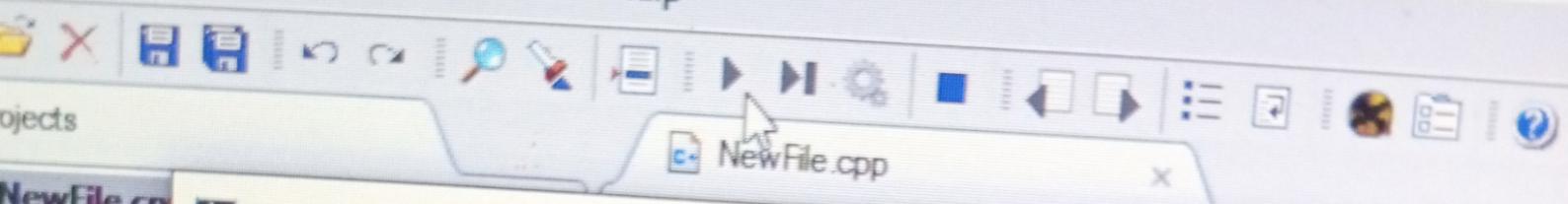
el:0

Compilation success in 0.0422 s



on C++ [Running]

it Search View Project Run Tools Help

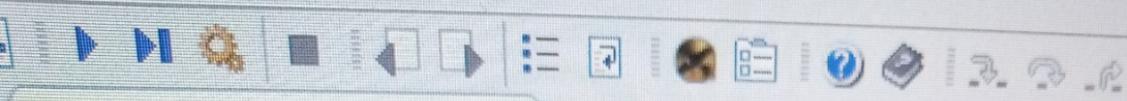


C:\Users\user\Documents\Projects\NewFile.exe

value of  $a = 10$ ,  $b = 20$  and  $c = 30$

```
Process returned 0    execution time : 0.039 s
Press any key to continue.
```

## Help

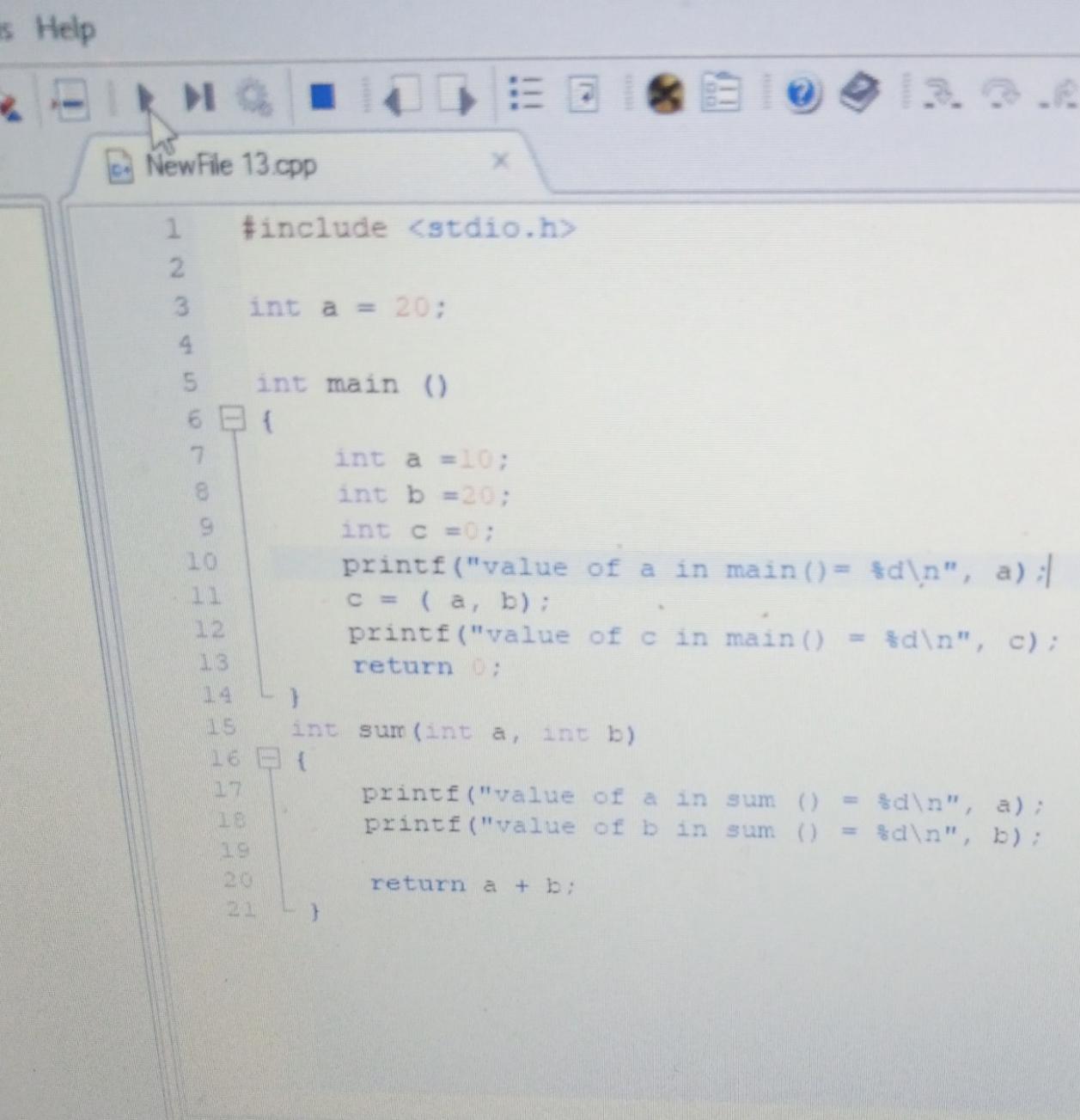


NewFile.cpp

```
1 #include <stdio.h>
2 int main()
3 {
4     int n[10];
5     int i,j;
6
7     for (i=0; i<10; i++)
8     {
9
10    n[i]=i+100;
11
12    for(j=0; j<10; j++)
13    {
14        printf("element[%d]=%d\n", j, n[j]);
15    }
16
17 }
```

```
File Edit View Help  
C:\Users\lenovo\Documents\Projects>NewFile.exe  
element[0]=100  
element[1]=101  
element[2]=102  
element[3]=103  
element[4]=104  
element[5]=105  
element[6]=106  
element[7]=107  
element[8]=108  
element[9]=109  
  
Process returned 0 execution time : 0.026 s  
Press any key to continue.  
  
NewFile.cpp Ln:7 Col:24 Sel:0 Compilation success in 0.028 s
```

Help



```
1 #include <stdio.h>
2
3 int a = 20;
4
5 int main ()
6 {
7     int a =10;
8     int b =20;
9     int c =0;
10    printf("value of a in main()= %d\n", a);
11    c = ( a, b);
12    printf("value of c in main() = %d\n", c);
13    return 0;
14 }
15 int sum(int a, int b)
16 {
17     printf("value of a in sum () = %d\n", a);
18     printf("value of b in sum () = %d\n", b);
19
20     return a + b;
21 }
```

### Messages

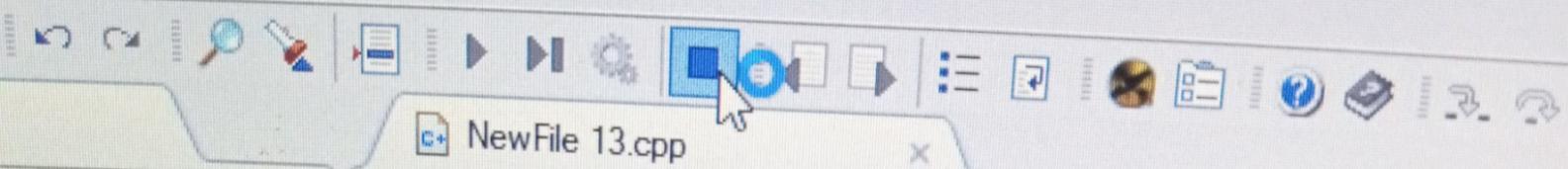
File	Line	Notification
1 NewFile 13.cpp		
⚠ NewFile 13.cpp	11	left-hand operand of comma has no effect

Ln:10 Col:45 Sel:0

Compilation success in 0.0515 s

here to search

Project Run Tools Help



NewFile 13.cpp

```
1 #include <stdio.h>
2
3 int a = 20;
```

C:\Users\user\Documents\NewFile 13.exe

value of a in main()= 10  
value of c in main() = 20

Process returned 0 execution time : 0.034 s  
Press any key to continue.

P Ln:10 Col:45 Sel:0

Compilation success in 0.0515 s

Type here to search