



COMPILE AND RUN THE C PROGRAM



compile your code by (Build Solution) :

If you have some syntax errors it will be displayed as shown below:

The error could be in the same statement or the previous line

```
#include <stdio.h>

int main(void)
{
    int course;
    printf("Enter the number of your csc course:")
    scanf("%d",course);
    printf("\n***** hello in csc201 of c programming *****\n")
    return 0;
}
```

Error: expected a ;

| Description | File | Line | Colu... | Project |
|---|---------|------|---------|---------|
| 1 error C2146: syntax error : missing ';' before identifier 'scanf' | hello.c | 8 | 1 | Hello |
| 2 warning C4013: 'print' undefined; assuming extern returning int | hello.c | 9 | 1 | Hello |
| 3 IntelliSense: expected a ; | hello.c | 8 | 2 | Hello |
| 4 IntelliSense: expected a ; | hello.c | 11 | 2 | Hello |

| (Name) | main |
|--------------|-------------------------------|
| File | c:\users\admin\documents\visu |
| FullName | main |
| IsInjected | False |
| IsInline | False |
| IsOverloaded | False |
| IsSealed | False |
| IsTemplate | False |
| TypeString | int |

Some errors are **run time** error – which means that it will be displayed when you run your program even if the compiler is succeed without compilation errors. as shown below:

So you have to detect the errors and corrected

```
#include <stdio.h>

int main(void)
{
    int course;
    printf("Enter the number of your csc course:");
    scanf("%d", &course);
    printf("\n***** hello in csc2012 *****");
    return 0;
}
```

Microsoft Visual C++ Runtime Library

Debug Error!

Program: ...n\Documents\Visual Studio 2012\Projects\Hello\Debug\Hello.exe
Module: ...n\Documents\Visual Studio 2012\Projects\Hello\Debug\Hello.exe
File:

Run-Time Check Failure #3 - The variable 'course' is being used without being initialized.

(Press Retry to debug the application)

Abort Retry Ignore

Output

```
1> hello.c
1>c:\users\admin\documents\visual studio 2012\projects\hello\hello\hello.c(8): warning C4996: 'scanf': This function or variable may be unsafe. Consider using scanf_s instead
1> c:\program files (x86)\microsoft visual studio 11.0\vc\include\stdio.h(290) : see declaration of 'scanf'
1>c:\users\admin\documents\visual studio 2012\projects\hello\hello\hello.c(8): warning C4700: uninitialized local variable 'course' used
1> Hello.vcxproj -> C:\Users\admin\Documents\Visual Studio 2012\Projects\Hello\Debug\Hello.exe
***** Build: 1 succeeded, 0 failed, 0 up-to-date, 0 skipped *****
```

| (Name) | main |
|--------------|------------------------------|
| File | c:\users\admin\documents\vis |
| FullName | main |
| IsInjected | False |
| IsInline | False |
| IsOverloaded | False |
| IsSealed | False |
| IsTemplate | False |
| TypeString | int |

```

(Global Scope) | main(void)
#include <stdio.h>
#define _CRT_SECURE_NO_WARNINGS

int main(void)
{
    int course;
    printf("Enter the number of your csc course:");
    scanf("%d",&course);
    printf("\n***** hello in csc201 of c programming *****\n");

    return 0;
}

```



#define _CRT_SECURE_NO_WARNINGS

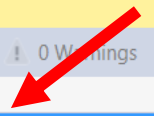
If you face this kind of error just add this statement #define _CRT_SECURE_NO_WARNINGS before #include <stdio.h>

100 %

Error List

1 Error | 0 Warnings | 0 Messages

| Description | File | Line | Column | Project |
|--|----------|------|--------|-------------------|
| error C4996: 'scanf': This function or variable may be unsafe. Consider using scanf_s instead. To disable deprecation, use _CRT_SECURE_NO_WARNINGS. See online help for details. | source.c | 8 | 1 | csc201programming |



Solution Explorer

Search Solution Explorer (Ctrl+)

- Solution 'csc201programming' (1 project)
 - csc201programming
 - External Dependencies
 - Header Files
 - Resource Files
 - Source Files
 - Source.c

Solution Explorer | Team Explorer | Class View

Properties

main VCCodeFunction

| C++ | |
|--------------|---------------------------|
| (Name) | main |
| File | c:\users\admin\documents\ |
| FullName | main |
| IsDefault | False |
| IsDelete | False |
| IsFinal | False |
| IsInjected | False |
| IsInline | False |
| IsOverloaded | False |

C++

```

hello.c
(Global Scope) main(void)
#define _CRT_SECURE_NO_WARNINGS
#include <stdio.h>

int main(void)
{
    int course;
    printf("Enter the number of your csc course:");
    scanf("%d",&course);
    printf("\n***** hello in csc201 of c programming *****\n");

    return 0;
}
    
```

Be sure the compile successes in compilation with "0 failed" (no errors)
Now your code ready to run.

Output

Show output from: Build

```

1>----- Build started: Project: Hello, Configuration: Debug Win32 -----
1> hello.c
1> Hello.vcxproj -> C:\Users\admin\Documents\Visual Studio 2012\Projects\Hello\Debug\Hello.exe
***** Build: 1 succeeded, 0 failed, 0 up-to-date, 0 skipped *****
    
```

Error List Output

Solution Explorer

- Solution 'Hello' (1 project)
 - Hello
 - External Dependencies
 - Header Files
 - Resource Files
 - Source Files
 - hello.c

Properties

main VCodeFunction

| | |
|--------------|------------------------|
| C++ | |
| (Name) | main |
| File | c:\users\admin\docu... |
| FullName | main |
| IsInjected | False |
| IsInline | False |
| IsOverloaded | False |
| IsSealed | False |
| IsTemplate | False |
| TypeString | int |

C++