

CSC415 HW1

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Host OS: Windows 7

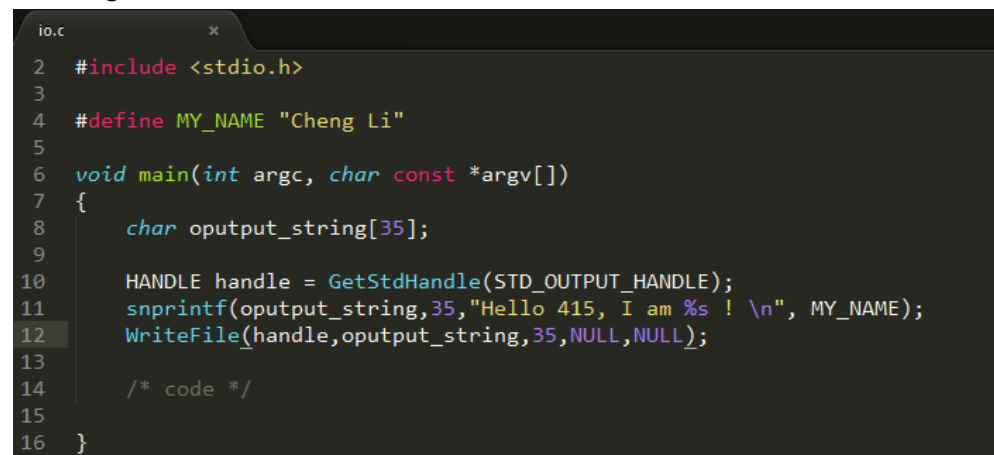
Guest OS: Linux (Ubuntu 14) on VirtualBox

1. Programming in Windows

Requirement:

- Prints out the following string on the shell command line: Hello 415, I am <your name>!
- <your name> is #Define'd
- Use GetStdHandle() to get a handle to the standard output stream,
- Use the snprintf() function to format your output into a buffer prior to printing
- Use cl to compile

Code Segment:



```
io.c
2  #include <stdio.h>
3
4  #define MY_NAME "Cheng Li"
5
6  void main(int argc, char const *argv[])
7  {
8      char oputput_string[35];
9
10     HANDLE handle = GetStdHandle(STD_OUTPUT_HANDLE);
11     snprintf(oputput_string,35,"Hello 415, I am %s ! \n", MY_NAME);
12     WriteFile(handle,oputput_string,35,NULL,NULL);
13
14     /* code */
15
16 }
```

Compile and run using Visual Studio cl compiler:

```

E:\703_GSC415\HW1\Win32>cl io.c
用于 x86 的 Microsoft (R) C/C++ 优化编译器 19.00.23506 版
版权所有 (C) Microsoft Corporation。保留所有权利。

io.c
Microsoft (R) Incremental Linker Version 14.00.23506.0
Copyright (C) Microsoft Corporation. All rights reserved.

/out:io.exe
io.obj

E:\703_GSC415\HW1\Win32>io.exe
Hello 415, I am Cheng Li !

E:\703_GSC415\HW1\Win32>_

```

2. Programming in Linux (in VirtualBox)

Requirement:

- Prints out the following string on the shell command line: Hello 415, I am <your name>!
- <your name> is #Define'd
- Use write() function, and 1 for the file descriptor.
- Use the snprintf() function to format your output into a buffer prior to printing
- Use cc to compile, with -Wall option

Code Segment:

```

1 #include <fcntl.h>
2 #include <unistd.h>
3 #include <stdio.h>
4 #define MY_NAME "Cheng Li"
5
6 int main(int argc, char const *argv[])
7 {
8     char output_string[35];
9     snprintf(output_string,35,"Hello 415, My name is %s !\n", MY_NAME);
10    write(1,output_string, 35);/* code */
11    return 0;
12 }

```

Compile and run:

