This document demonstrates how to edit and compile a simple C++ program on the **cs-class.uis.georgetown.edu** server. There are several editors available that you can use, this example uses the text editor **nano**.

Open the **nano** editor by typing the word **nano** followed by the name of the file you want to create or edit.

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Enter the text much the same as you would in Notepad or Microsoft Word.

🖻 waw23@cs-class:~		
GNU nano 2.0.9	File: myFile.cpp	Modified 🔥
#include ≺iostream≻		
using namespace std;		
int main() { cout << "My first	C++ program." << endl;	
return 0; } //end main		
		III
∧C Get Help ∧O WriteO ∧X Exit ∧J Justif	ut <b>^R</b> Read File <mark>^Y</mark> Prev Page <mark>^K</mark> Cut y <b>^W</b> Where Is <b>^W</b> Next Page <b>^U</b> Un(	: Text <mark>^C</mark> Cur Pos Cut Text <mark>^T</mark> To Spell 🛛 👻

Common **nano** commands are listed at the bottom of the screen. To save the file press **^O**, that is press the **Ctrl** key and the letter **O** at the same time. **nano** prompts to confirm the filename at the bottom of the screen prior to the command list. Press Enter to confirm the file name and save.

waw23@cs-class:~					×
GNU nano 2.0.9	File: m	yFile.cpp		Modified	^
#include ≺iostream≻					
using namespace std	;				
int main()					
ι cout << "My fir	st C++ program." <	< endl;			
return 0;					T
} //end main					
File Name to Write: ^C Get Heln	myFile.cpp ^T To Files	Mac Format	M-P Pren	end	
^C Cancel	M-D DOS Format	M-A Append	M-B Back	up File	×

**nano** will display the number of lines written to the file. When you are finished editing press **^X** to exit the **nano** editor. (Don't forget to press **^O** again to save any edits prior to exiting)

🛃 waw23@cs-cla	ss:~				
GNU nano 2.0.9		File: myFil	e.cpp		^
#include ≺iostre	am>				
using namespace	std;				
int main() {					
cout << "My	first C++ pr	ogram." << en	dl;		
return 0;					
} //end main					
^C Get Help ^O	WriteOut AR	[ Wrote 11 Read File ^Y	lines ] Prev Page	🕅 Cut Text 🔨	Cur Pos
^X Exit ^J	Justify ^W	Where Is ^V	Next Page	U UnCut Text <sup>^</sup> T	To Spell 🗸

To compile your C++ program, enter the command **g++** followed by the name of the source code file (e.g. **g++ myFile.cpp**).

🖻 waw23@cs-class:~	×
login as: waw23	1
This system is for use by authorized users only. Georgetown University	
reserves the right to monitor its use as necessary to ensure stability,	
availability, and security in accordance with the Computer Systems	
Acceptable Use Policy, the Information Security Policy, and other	
applicable University policies and federal regulations. Unauthorized	
or improper use of this system may result in administrative	
disciplinary action and civil and criminal penalties. By continuing to	
use this system you indicate your awareness of and consent to these	
terms and conditions of use. DISCONNECT IMMEDIATELY if you do not agree	
to the conditions stated in this notice.	
waw230cs-class.uis.georgetown.edu's password:	
Last login: Sun Jan 8 15:11:10 2012 from pool-71-163-234-106.washdc.east.verizo	6
n.net	
[waw23@cs-class ~]\$ nano myFile.cpp	
[waw23@cs-class ~]\$ g++ myFile.cpp	
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By default, the C++ compiler will name the executable file **a.out** (we will see how to change this later). To run the executable file type **./a.out**.

🖋 waw23@cs-class:~	×
login as: waw23	1
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to the conditions stated in this notice.	
waw23@cs-class.uis.georgetown.edu's password:	
Last login: Sun Jan 8 15:11:10 2012 from pool-71-163-234-106.washdc.east.verizo	ŝ.
n.net	
[waw23@cs-class ~]\$ nano myFile.cpp	
[waw23@cs-class ~]\$ g++ myFile.cpp	
[waw23@cs-class ~]\$ ./a.out	
My first C++ program.	
[waw23@cs-class ~]\$	
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Some useful commands:

- Type **Is** to list the files saved to your account.
- Type **mv <existing file name> <new file name>** to rename an existing file.
- **mv a.out firstTest.exe** renames the default executable to a new name.
- ./firstTest.exe runs the newly named file

🖻 waw23@cs-class:~			
<pre>[waw23@cs-class ~]\$ ls BkUp_proj04aTip01.cpp Ch11Ex02.cpp Ch11Ex04.cpp Ch11Ex06.cpp Ch11Ex07.cpp Ch11Ex09-11.cpp Ex10p421.cpp Ex10p421.cpp [waw23@cs-class ~]\$ mv [waw23@cs-class ~]\$ ./: My first C++ program. [waw23@cs-class ~]\$ .</pre>	*.cpp Bx20p423.cpp Bx7_6.cpp Test002.cpp execsql.cpp hw01Imp.cpp hw5Imp.cpp labV02.cpp myBx10b.cpp a.out firstTe firstTest.exe	myFile.cpp myHW01.cpp myHW5.cpp p04v02.cpp randMain.cpp zzBkUp201101071205_hw01Imp.cpp zzBkUp201101071205_myHW01.cpp st.exe	

Some more useful commands.

- Type **g++** -**o** <**output file name**> <**source code file name**> to override the default output file name
- **g++** -**o myFile.exe myFile.cpp** recompiles the C++ program and names the executable file **myFile.exe** instead of the default **a.out**
- ./myFile.exe runs the file



Type **logout** to end your session on **cs-class.uis.georgetown.edu**.

