A quick primer of linux and use the Kate editor.

Linux quick primer:

Linux is command line based	l (but has windows)
cd changes directory	- ill-hands to the sub-line stars Desuments
cu Documents	which ange to the parent directory Documents
	changes to the parent directory
rin removes a me	
rm mynle.txt	will delete the file myfile.txt
mv will move a file and/or re	name a nie
Note the perio	d is required.
mv myfile.txt Docum	ents/myotherfile.txt
Moves the file myfile.txt to the subdirectory Documents and renames the file	
mv myfile.txt myothe	erfile.txt
changes the na	ame of myfile.txt to myotherfile.txt
cp is the copy command	
cp myfile.txt Docume	ents/. Copies the file to the subdirectory Documents
again the perio	od is required.
cp myfile.txt Docume	ents/anotherfile.txt Copies the file and names it anotherfile.txt
ls lists the directories and fil ls -la will list all files	es in the current directory including dot files (such as .cshrc) in a column format.
whereis <filename> will sear whereis kate kate: /usr/bin/kate</filename>	ch the path and if found, where you where the filename is found
whereis firefox firefox: /usr/bin/firefo	ox /usr/local/bin/firefox /usr/local/firefox4.0 /usr/local/firefox
which <filename> will tell ye which firefox /usr/local/bin/firefox</filename>	ou which filename will be run.
input and output redirections file >filename.out redirects noted, the error message (std file <filename.in redirects="" th<br="">file <filename.in>filename.co output to filename.out.</filename.in></filename.in>	any output from the program file to the file filename.out It should be err) may not be redirected. he input to the filename.in out The input to the program file comes the filename.in and directs the
Compiling in c++ and runn g++ filename.cpp	ing from the command line. the compiler is called g++

This will attempt to compile the file and produces a executable called a.out g++ filename.cpp -o filename

this will attempt to compile the file and produces a executable called filename To run the files at the command line (note you may have to have the ./ as part of the filename). ./a.out OR ./filename depending on how you compiled it.

Java compiling and running from the command line.

javac filename.java

this will compile the java file and produces a file named filename.class java filename (do not include the .class)

this will run the program.

Kate overview

kate is a simple editor environment. It will do syntax highlighting, based on the file name extension. It has a command line window, plus it allows you have multiple files open at the same time. The editor is pretty straight forward with cut and paste and most feature you would expect to find. If you want to use the vim style editor Settings=>Configure Kate .. => Editing =>VI Input Mode

To launch kate, at the command prompt: kate

In the left pane is your file list. In the right top windows is the open file At the bottom look for Terminal and click it. This open the terminal window. Click it again to hide the terminal window.

It should start with an Untitled document. You can save that as the file you want to start the Syntax highlighting.

C++ demo:

For this save it as helloicpc.cpp Type in the following code:

#include <iostream>
using namespace std;

```
int main() {
   cout<<"hello ICPC\n";
   return 0;
}</pre>
```

Now save the code again. In the command window (or other terminal) you can compile and run the code. You may need to cd in the subdirectory (example cd Documents) g++ helloicpc.cpp -o helloicpc helloicpc

I would suggest you go back and make syntax eror and compile again, so you can see the error messages. A note with g++, always try and fix the top/first message first. The other error message may go away. And don't forget to check the warning messages as well!

Java Demo:

```
Click the new button to get another Untitled document. Save it as helloicpc.java
Type in the following code:
class helloicpc {
    public static void main(String[] args) {
        System.out.println("Hello ICPC"); // Display the string.
    }
}
```

Now save the code again. In the command windows (or other terminal) compile and run the java code javac helloicpc.java

java helloicpc

Again, I would suggest you make a sytax error, so you can see the compiler error messages.