

Objectives:

- familiarize yourself with the lab computers
- make sure you can access your folder on the P: drive
- test your access to the submission system
- lets me get to know you a bit better

Part A: Logging on - this should work in Wright 112, Wright 339, and ITT 335 labs

1. Locate a free computer
2. The computers in these labs are “dual boot” - that is, they run both Windows and Linux. For now, we will be using the Windows. If you happen to sit at a computer that is booted into Linux then you will need to reboot the machine into Windows.
3. Once your computer that is booted into Windows, you will need to log on:
 - Press Alt-Ctrl-Del at the same time
 - When you see the box labeled "Login Instructions" click "OK" to advance to the next screen
 - Finally, you will get a standard Windows log-in screen
 - Use the same username and password you use for most ITS computers on campus (your CATID)
 - make sure that "AD-ITS" is selected in the section marked "Log on to:"
 - Wait until the system logs you in. **This process may take a few minutes the first time you log on in the lab.**

Part B: Accessing your P: Drive folder

In order to keep your files for this course together and in a place where they can be easily accessed from multiple locations, you will want to create folders for your course materials.

1. Open up the graphical representation of the computer by selecting "Start | My Computer " or selecting My Computer icon from the desktop
2. Select (double click) on the icon for the network drive named “Math-CS”.
3. When this drive opens up notice that the address field says “P:” For this reason I will refer to this as the “P: drive” (tricky, I know!)
4. Select the icon labeled “810-051-fienup” This is the directory for this course.
5. Select the icon for the folder labeled with your username.
6. Create a new folder in this directory and give it the name lab1. You can do this by right clicking in the empty area and selecting “New | Folder” and then renaming the folder that is created.

NOTE: The P: drive is NOT backed up regularly, so I'd also get a USB flash drive to use

Part C: Using the Microsoft Visual Studio IDE

During this course you will use the Microsoft Visual Studio 2008 IDE (Integrated Development Environment) as a tool to write C++ programs. (You can download a similar, free version of Visual C++ 2008 Express Edition at <http://www.microsoft.com/express/>). Let's develop a simple C++ program by the following steps:

1. Start Microsoft Visual Studio 2008 by clicking on the menu items:
 - Start | All Programs | Microsoft Visual Studio 2008 | Microsoft Visual Studio 2008
2. You might get a Choose Default Environment Settings window. If you do, select Visual C++ Development Setting, then click Start Visual Studio button. You might need to wait a few minutes while Microsoft Visual Studio is configured for the first time.
3. When Microsoft Visual Studio finally starts, you need to create a project for lab 1:
 - On the File menu, point to New, and then click Project.
 - Under Project types, expand Visual C++, and then select Win32. Under Templates, click Win32 Console Application.
 - Type a project name of MileageCalculator. By default, the solution that contains the project has the

- same name as the new project which is usually okay, but you can type a different name.
- You should Browse to the Desktop as the location for the project. Visual Studio runs slowly from the P: drive, so use the Desktop to develop the project. After you exit Visual Studio, copy the project folder to your folder on the P: drive and/or your USB flash drive.
 - Click OK to create the project.
 - In the Win32 Application Wizard, click Application Settings to reveal options for Application type. Under Additional Options, select Empty Project and then click Finish.
4. Now that we have a project, let's add a new source file to the project so we can enter C++ code by:
- In Solution Explorer, right-click the Source Files folder, point to Add, and then click New Item.
 - On the Visual Studio installed templates list, select C++ File (.cpp), type the file name Mileage, and then click Add.
 - The Mileage.cpp file appears in the Source Files folder in Solution Explorer and is automatically opened in the code editor. The file is empty of course.
 - Type the following C++ program into the Mileage.cpp file:

```
// Program to calculate miles per gallon

#include <iostream>
using namespace std;

int main() {
    double miles, gallons, MPG;

    cout << "Enter the number of miles: ";
    cin >> miles;

    cout << "Enter the number of gallons: ";
    cin >> gallons;

    MPG = miles / gallons;

    cout << "Your mileage was " << MPG << " miles per gallon." << endl;
    return 0;
} // end main
```

5. Build and run the program by:
- On the Build menu, click Build Solution. The Output window displays information about the compilation progress, for example, the location of the build log and a message that states the build status. If you have a typo, then fix your program and repeat this step.
 - On the Debug menu, click Start without Debugging. This will pop up a Console window for the program interaction.
6. After you perfect your program, save your work using File | Save All, and exit Visual Studio.
7. Copy the directory MileageCalculator containing your solution from the Desktop to your folder on the P: drive.

Part D: Practice using the on-line submission system

Most labs will NOT use the submission system, but you will be using it for Homework submissions. The steps for the homework submission system are:

1. Zip your MileageCalculator directory on the Desktop by Right-clicking on it and selecting Send To | Compressed Zipped Folder which will create a file called MileageCalculator.zip. This is what you want to submit via the on-line submission system.
2. Log on to the submission system at: http://www.cs.uni.edu/~schafer/submit/which_course.cgi

(It is very likely that you will get some security certificate warnings when trying to use this. You may add an exception and accept the existing security certificate.) Use the same AD-ITS User name and password you used to log on the computer.

3. Select the course and section number of "810:051, Intro to Computer, Fienup". Click the "Continue" button.
4. Select the homework that you wish to submit: "Lab 1 Submission Practice". Click the "Continue" button.
5. Specify how many extra files you want to submit. Just leave it at 0. Click the "Continue" button.
6. Upload the file by Browsing to the Desktop and selecting MileageCalculator.zip. Click the "Continue" button.
7. The next page reports on the status of the upload(s). You can always continue to upload until the deadline with a newer file of the same name replacing the older one.

Part E: Complete a questionnaire - With the lab handout, you should have received a background survey, complete it before leaving lab. **After you turn in your background surveys, you are free to leave.**

Do not forget to "log off" of the machine you are working on.