

CS1203 Assignment 1

Fall 2020

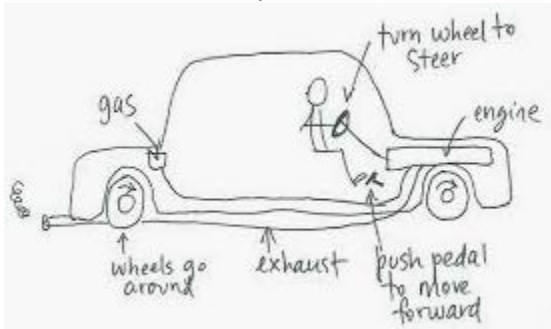
Due **Monday September 21st** before **4pm Atlantic** in the Desire2Learn dropbox.

Note: All answers need to be contained in a single document using a word processor. The first page of the document must be a title page which includes the following information: course (ie: CS1203), assignment number (ie: Assignment 1), your name, your student ID, and the following note that states: "I warrant that this is my own work.". A sample has been posted in D2L in the Assignments content page, however, you can create your own so long as it contains the same information. Number each answer with the number matching the question and maintain the same ordering. Once you have finished your document, save the document as a PDF file.

Submit the PDF file to the appropriate drop box on Desire2Learn. Name your document as follows: **CS1203_YourName_A1**

If you have saved it properly as a PDF file then the file extension .pdf should appear after the name: CS1203_YourName_A1.pdf

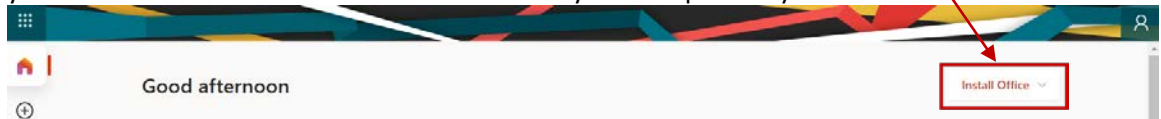
1. There are computer science houses in the faculty of computer science that are named after famous computer scientists: Charles Babbage, Edsger Dijkstra, Grace Hopper, Alan Kay, Donald Knuth, Alan Turing, and John von Neumann. The first computer programmer, Ada Lovelace, although does not have a house named after her, is considered the mother of computer science. Briefly summarize what contributions each of these 8 people made to the field of computer science.
2. Review the section "Abstraction" on page 6-8 of the textbook. Consider the document you are creating for this assignment, you are using a word processor, typing information on a keyboard, perhaps using a mouse to move your cursor or select options on the toolbar, saving the document, etc. **Draw on paper** your mental model of how your computer works in order to create your document. This may include pictures, words, symbols, however you imagine your computer working and the components of your computer working together to accomplish the task of creating your assignment document. For example, here is someone's mental model of how a car works:



Scan the drawing or take a picture of it and insert the image into your assignment document (similar to how I have the image in this document). Make sure the image is large enough and of high quality so it can be easily read.

3. What is the difference between a systems programmer and an application programmer?
4. What is cloud computing? What are two advantages to cloud computing?
5. Complete the following instructions for this question:

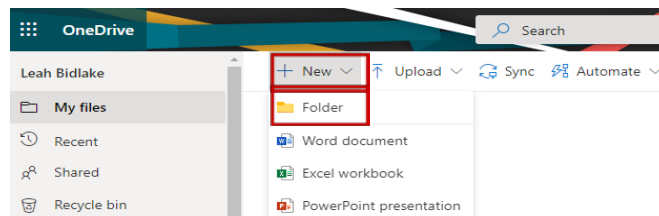
As a UNB student you have access to Microsoft cloud computing resources free of charge. Included in these resources is cloud storage space using an application called "OneDrive". Access this space through the UNB Portal, in the Launch menu click on "Microsoft 365". This will bring you to your Microsoft Home page. From the homepage you can also install Microsoft Office for free on your computer if you want:



To access your OneDrive either:

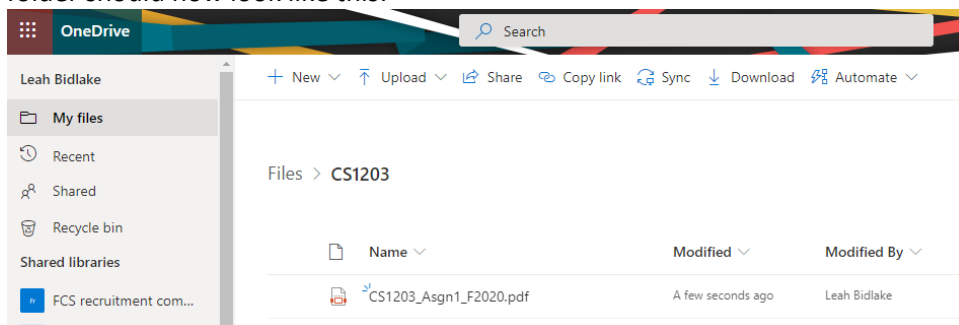
- Click on the app launcher to the left of the "Office 365" header and select "OneDrive"
- OR click on the "OneDrive" icon that looks like a cloud down the left hand side of the screen

Create a new folder in your OneDrive named **CS1203**. Do this by clicking "New" and selecting "Folder" from the dropdown menu as shown below:



Open the folder by clicking on the folder, it will initially be empty. To add files to your folder you can select "Upload" and then click on the file you want to store in your folder, or you can drag files into the folder using your mouse.

Download this assignment file from D2L and then upload the file to your OneDrive. Your folder should now look like this:



Take a screen shot of your OneDrive folder – the image must be large enough to include your name (top right corner under “OneDrive” header) and the assignment file that you saved in the folder (similar to my image). Insert the image into your assignment document for question 4.

Note: You can take screen shots by using applications such as “Snip & Sketch” or using the “Print Screen” or “PrtSc” key on your keyboard and then pasting the image into an editor such as “Paint”. If you do not know how to do a screen capture on your computer find a tutorial on YouTube or search for instructions online.

I suggest backing up all of your work to your OneDrive (upload the files from your computer to your OneDrive) so that if your computer crashes you will not lose your work. You can do this by selecting “Sync” from the OneDrive menu.