**Part 1**

Think about your professional destination after you complete your work here at Seneca: where would you like to go next? What skills and knowledge are you going to need when you get there that you don’t have or don’t have enough of?   
🡺Make a list, submit it here (20 points), and also hang on to it for the future.

In this 21st century, the career opportunities for programmers are plentiful and the demand for programmers is higher now than any time in history. There are several areas that I’ve been doing my research on; mobile dev, app dev, security software dev and cloud computing. But because I’m still not comfortable with programming, I should spend these semesters learning and mastering as many languages as possible because all those developments require one or more high-level and sophisticated languages like Java, C/C++, Python(not difficult), Android language, HTML5, C#,XML, etc.

Aside from mastering the languages, other skills like team working, communication, time and project management skills that we learned in today’s class. These skills would determine the level of work efficiency and as well as the production value of a project that my future team will create. Even if I were to work as a freelancer in the future, I would still have to be efficient in my work schedule and project management because I would be the one responsible for the company’s reputation and relation with others.

Personally, I have always had a keen interest in game development (PC and console) ever since I was a kid. I had collected game magazines and wanted to create my first game if an opportunity would arise in the future. It was my childhood dream to work for big franchise; such as, Ubisoft, EA, Capcorn, Microsoft, Nintendo, and Blizzard. Great studios, friendly work community and projects that I would be passionate about. But soon I realized that there are a vast of non-gaming companies and banks that work on interesting projects and development in Ontario.

With that being said, after I finish my program here at Seneca, hopefully I would start working as a entry-level developer for a small software development company in downtown, with a regular position and a regular pay. I would spend a few years in the company, get promoted, or perhaps switch to other mid-level companies to make a good salary.

**Part 2**

Out of the many things CPR101 will cover, investigate **four** topics:

* Find **either** a current IT news item about it(there are numerous news sources listed in the PowerPoint notes) **or** search Lynda.com (or YouTube but start with Lynda.com) for a tutorial that explains it. e.g. <https://www.lynda.com/Programming-Foundations-tutorials/What-programming/83603/90430-4.html>
* Note that item’s URL with a few sentences explaining   
  \* What is the new item about?   
  \* Why did you choose that topic? What interests you about it?   
  \* Why did you find that news/tutorial item of value?
* Use the following format in a Word document and submit it for 20 points each.

1. CPR101 concept: Advanced C Programming: Working with arguments in the main () functions.
   1. News or tutorial item’s URL: https://www.lynda.com/C-tutorials/Working-arguments-main-function/195668/369006-4.html?srchtrk=index%3a2%0alinktypeid%3a2%0aq%3ac+programming%0apage%3a1%0as%3arelevance%0asa%3atrue%0aproducttypeid%3a2
   2. News or tutorial item Summary: This tutorial teaches in-depth information on the arguments in the main () functions in C programming. Provides more info on how to work with more efficient and functional code using different operators, different types of variables that are available to use, and sorting and building an array of structures.
   3. Why did you choose that topic? What interests you about it? I wanted to explore more features that are available on C programming software. Just like there are more sophisticated programs in Microsoft office other than Words and Excel, I find that C software also provide user-friendly interfaces that are easy to use and allow you to build powerful coded.
   4. Why did you find that news/tutorial item of value? It is very essential to gain more knowledge and build strong foundation on C programming because it is the stepping stone before we get to learn complicated languages as we make progress through semesters.
2. CPR101 topic: SAS Institute(Canada) brings analytics to locomotives on industrial IoT (Internet of Things) to its locomotives in North America
   1. News or tutorial item’s URL: http://www.itworldcanada.com/article/sas-brings-analytics-to-locomotives-on-industrial-iot-edge-devices/396761
   2. News or tutorial item Summary: With the help and analytics of SAS’s IoT edge devices, companies like GE transportation can successfully track of the transportation fuel costs, operation costs, etc.
   3. Why did you choose that topic? What interests you about it? It’s really amazing to see that SAS can build a sophisticated program allows your company to cooperate with another company that capitalize on a $900 billion transpiration market in NA.
   4. Why did you find that news/tutorial item of value? I find that it is very important as a manager of a big IT company to keep encouraging and effectively manage your team because your partner company operates dangerous and expensive projects and they would always be depending on the secure software you create. Therefore, your team always have to be on the same page and be able to produce a quality product so that your company maintains the trust and relationship with your partners.
3. CPR101 topic: All Hands on Tech: Sanbot, the hospitality robot
   1. News or tutorial item’s URL: http://www.itworldcanada.com/video/all-hands-on-tech-sanbot-the-hospitality-robot
   2. News or tutorial item Summary: A humanoid robot from China is designed to have a conversation with customers and answer any question that the customers may have.
   3. Why did you choose that topic? What interests you about it? Chinese manufacturer has introduced us Sanbot at the HITEC conference in Toronto, hoping to land a distribution here in the city. This means it will soon come a day where robots will come in actions to interact with people in public areas and facilities
   4. Why did you find that news/tutorial item of value? The programs that the Chinese manufacturer has integrated into Sanbot must be very sophisticated and complex. Their software engineers must have spent years to develop such powerful programs. Allowing Sanbot to use its two emotive eyes to sense and identify objects around it, and implanting delicate touch sensors all around its body to sense and respond. It is very intriguing to see how much of our hardware and software have developed since the day we invented a computer.
4. CPR101 topic or concept: The business leadership podcast: Vicki Saunders, Founder at SheEO
   1. News or tutorial item’s URL: http://www.itworldcanada.com/blog/the-business-leadership-podcast-vicki-saunders-founder-at-sheeo/396667
   2. News or tutorial item Summary: This article congratulates Vicki Saunders, not only acknowledging her influence of creating positive transformation in female leadership, but also for her many achievements and for being a role model and advocate for female entrepreneurs.
   3. Why did you choose that topic? What interests you about it? Although this article is not closely related to any IT concepts, but since there are many software developers nowadays who choose to run their own business for the first time and do not really know where to start, I thought an award-winning entrepreneur and mentor like Vicki Saunders herself would be an inspiration and a great role model to many of us.
   4. Why did you find that news/tutorial item of value? In our current IT world, establishing good relations and running ventures with multiple companies are very crucial in this competitive market. In order for your company to grow and produce good results, you need to formulate a group of influential leaders and lead your teams to the same goal. As previously mentioned, there are many passionate entrepreneurs trying to start their year-long project and have high expectations to succeed, but because IT market is not always forgiving, many of them stumble and fall heavily because of the lack of resources or financial issues. Therefore, relying on the entrepreneurship consultation from experts like Vicki is important and may be able to assist many young IT leaders to succeed.