Take-Home Writing Assignment #4 – Non-AI Version (10%)

SPECIAL NOTE ON USE OF GENERATIVE AI
Third-party AI programs that require you to upload your personal information carry significant privacy and intellectual property concerns.

This version of Take-Home Writing Assignment #4 provides you with an equitable equivalent to the version that includes the use of generative AI.

If you do choose to complete this version of the assignment, you are not required to use generative AI to demonstrate your understanding of course learning outcomes.

WHAT
Demonstrate your ability to think critically and develop a meaningful and appropriate research question.

WHY
Educational and workplace expectations require people to ask insightful, original, and relevant questions, to understand the value of the questions they ask, and to find meaningful answers based on reliable sources of information.

HOW
Follow the steps below and respond to the prompts in the spaces provided.

1. DEVELOP A RESEARCH QUESTION

Using what we have learned about developing research questions, write a research question that you would be interested in and capable of answering.

Develop your question based on <u>ONE</u> of the following prompts.

- **<mark>Historical Analysis</mark>**: Develop a question that inquires about a *significant historical event, period, or person* within your field of study.
- **Industry Analysis:** Develop a question that inquires about a *current trend, problem, or innovation* within your field of study.
- **Product Analysis:** Develop a question that inquires about *a current technology, consumer product, or brand* within your field of study.

a) Identify which type of analysis (from the three listed above) your question will explore.

Historical Analysis

b) Write your research question in the space below.

History of C Programming Language

2. JUSTIFY YOUR RESEARCH INTEREST

Explain why it would be professionally helpful for you to understand the answer to your chosen question and why it represents a good fit with your current level of experience and knowledge.

I am in the primary stage of software engineering, For example, I don't know why it calls C/C++, is there has B or A? That will be helpful for me to be interesting about my course.

3. IDENTIFY A USEFUL SOURCE OF INFORMATION

Demonstrate your ability to answer your research question by identifying a relevant, appropriate, and reliable source of information. Use APA @ Conestoga style to list this source in the space below. Remember to consult our APA @ Conestoga website!

http://csapp.cs.cmu.edu/3e/docs/chistory.html

4. JUSTIFY YOUR POTENTIAL TEXT

Demonstrate the suitability of your supporting text by answering the following questions.

a) How do you know this source is trustworthy?

Because they write this in their main page:
This book (CS:APP3e) is the third edition of a book that stems from the introductory computer systems course we developed at Carnegie Mellon University, starting in the Fall of 1998, called "Introduction to Computer Systems" (ICS). The presentation is based on the following principles, which aim to help the students become better programmers and to help prepare them for upper-level systems courses:

b) What makes this source appropriate for your current level of experience and knowledge?

I think that's because it is similar to a story-telling mode and it is not very hard to understand. There are not too many words to describe how to program, just tell us how C Programming Language comes from.

c) What will this source help you to learn about the topic of your research question?

That is very helpful for my question, it compliant with my requirements.

5. USE YOUR SOURCES TO DEVELOP YOUR THINKING

We have learned in class that academic research and critical thinking is an "iterative" process, which means it is a process that develops in stages that build upon the previous stages.

a) Based on the information you found in your initial source of information (i.e. the source you identified in #3 above), identify a second source of information that would help you to answer your research question effectively. Use APA @ Conestoga style to list this source in the space below. Remember to consult our APA @ Conestoga website!

https://learn.microsoft.com/en-us/dotnet/csharp/whats-new/csharp-version-history

b) Explain how this additional source of information would add to your understanding of the research question you developed.

This source is easier to read, it is more like a development diary. It includes all the major changes of C# in a list, from 2002 to today.

c) Based on the results of your initial research, would you make any changes to your original research question? Why or why not? If you would, what might that change include?

No I won't, they are all very helpful for my research. I have no reason to change it.

6. Distinguish Sources of Information According to Purpose and Audience

Reference materials like Wikipedia can be a useful tool for background research, but they are not intended to replace the kind of critical thinking and interpretation that is expected when students are asked to engage with complex questions and problems.

But, it is worth asking…why not?

Find the Wikipedia page that most closely matches the focus of your research, and in the space below, explain how this response might fail to meet the expectations of an academic a research-based writing assignment at Conestoga College.

In your response, you might consider what we have learned about any or all of the following:

- audience and purpose,
- tone and voice,
- organizing and developing ideas,
- using text references to support your academic writing, and
- APA @ Conestoga style guidelines.

Wikipedia has a wide audience, including both experts and regular people, which means almost everybody can edit Wikipedia. As a result, the information may not have the depth and detail typically found in academic research. The tone and voice feel balanced, it does not reach the requirement of most academic research. Organizing and developing ideas is simplified in Wikipedia because it wants to make more people understand it. About APA, Wikipedia might not follow the specific way of citing sources that academic places like APA require.