2a. Provide information on your computing innovation and computational artifact.

- Name the computing innovation that is represented by your computational artifact.
- Describe the computing innovation intended purpose and function.
- Describe how your computational artifact illustrates, represents or explains the computing innovation intended purpose, its functions, or its effect.

(Must not exceed 100 words)

The computing innovation represented in my computational artifact is automated/algorithmic trading strategies based on the internet. The purpose of the innovation is to set up a program that identifies certain trends that are hot in present time to sell or buy stocks or products to make a profit. My artifact depicts the process of how the program identifies great opportunities in stocks to engage in trade and views keywords in trends to make buys and sales.

2b. Describe your development process, explicitly identifying the computing tools and techniques you used to create your artifact. Your description must be detailed enough so that a person unfamiliar with those tools and techniques will understand your process.
(Must not exceed 100 words)

I simply chose to use many images with a minimal amount of text for a viewer to visually understand how the program works. I focused on simple explanations but also an aesthetic appeal to the artifact. I used images and arrows to follow up another image and show how it relates to it with small text.

2c. Explain at least one beneficial effect and at least one harmful effect the computing innovation has had, or has the potential to have, on society, economy, or culture.
(Must not exceed 250 words)

There are many benefits to automated trading. A benefit is that trades “are executed at their best prices” (Source 1). Another benefit is that there can be more than one account in the program to enable more trade. One harmful effect is the invasion of privacy over people online, because recent history of users online will be used to advertise for sales. It has an beneficial effect on the economy because buying and selling moves money around in the world of business. It has an effect on society as well, because all the advertisements are shown on users’ online devices from all of their social media or viewing history/memory.

2d. Using specific details, describe:

- the data your innovation uses;
- how the innovation consumes (as input), produces (as output), and/or transforms data; and

- at least one data storage concern, data privacy concern, or data security concern directly related to the computing innovation.

(Must not exceed 250 words)

The data of my chosen innovation uses Ninjascript Language and/or EasyLanguage programming language, and of course different programs use different data. Key variables are pre-programmed into the trading innovation such as time, price, and quantity. The innovation uses instructions of keywords or trends and goes through the global web to recognize these inputs to then execute a purchase or sell as the output. There is a data security concern of scams if it's too good to be true it's because it most likely is. There is also the risk of having hackers access one's work and steal money that one earns from their account.

2e. Provide a list of at least three online or print sources used to create your computational artifact and/or support your responses through in-text citation to the prompts provided in this performance task.

- At least two of the sources must have been created after the end of the previous academic year
- For each online source, must include the complete and permanent URL. Identify the author, title, source, the date you retrieved the source, and if possible, the date the reference was written or posted.
- For each print source, include the author, title of excerpt/article and magazine or book, page numbers(s), publisher, and date of publication.
- If you include an interview source, include the name of the person you interviewed, the date on which the interview occurred, the person's position in the field.
- Include in-text citations for the sources you used.
- Each source must be relevant, credible and easily accessed.

Source 1

Seth, Shobhit. "Basics of Algorithmic Trading: Concepts and Examples." *Investopedia*, Investopedia, 5 Feb. 2020, www.investopedia.com/articles/active-trading/101014/basics-algorithmic-trading-concepts-and-examples.asp.

Source 2

Folger, Jean. "Pros and Cons of Automated Trading Systems." *Investopedia*, Investopedia, 5 Feb. 2020, www.investopedia.com/articles/trading/11/automated-trading-systems.asp.

Source 3

Folger, Jean. “Pros and Cons of Automated Trading Systems.” *Investopedia*, Investopedia, 5 Feb. 2020, www.investopedia.com/articles/trading/11/automated-trading-systems.asp.