Written Response

2a)

The computing innovation represented by my computational artifact is email. Email was originally designed to send emails to others across the world quickly without having to write a letter and send it on a long journey on the other side of the Earth. In order to send an email you first log onto your email account with whatever email service you choose, then find and click the button "compose", once you've clicked that button a little box should pop-up in one of the corners of your screen and from there you're given a recipient bar along with a subject bar and one big empty space. If you wish to send an email to someone you must type their email address in the recipient bar and put the main topic of conversation in the subject bar. You then type an email in the big empty space and you may attach images, other documents, emojis, and adjust the text as you please. Once finished with your email you click the "send" button which allows the computer to send the email to the recipient(s) within seconds.

2b)

To create my artifict I used the program, "Google Draw" My artifact consists of text boxes explaining the process of how to create and send an email to another person. I also shared images of how the steps looked with my email provider (Gmail). The first step was logging into your email provider, then clicking compose and finding the little box that pops up in a corner of your screen, then typing up an email and clicking send. I also showed images of a few email providers and settings that are accessible like changing the color of the font or the shape of the font and how you're able to under or above every email put a signature that you identify with.

2c)

Although putting up wifi towers everywhere in the world where there's an active population wasn't the best for the environment or the wildlife there, you're able to successfully send an email to wherever you please to anyone who has an email easily with the click of a button. This allows people of any color or race or gender, etc. to connect with anyone no matter what the condition is as long as they have an email address. Having the ability to do this greatly connects our society, however, wifi towers are somewhat expensive to the government.

2d)

My innovation uses data in forms of wired connections, to internet, and wireless connections. As input, after you send an email it goes from your computer to the SMTP servers (Simple Mail Transfer Protocol) then to the DNS servers (Domain Name System) then back to the SMTP servers. It then goes to the POP (Post Office Protocol) or IMAP (Internet Mail Access Protocol) servers, and lastly, to the recipient's computer. Email is everywhere and connected to everything which causes an uprise in security issues. Email can be compromised from things like your device, the network, server, or the recipients device. Knowing this has a tendency to make people feel uneasy when emailing others however it is apart of our daily lives and the concern for this issue slowly fades away without a thought as the day passes by.

2e)

Websites used:

- "Email Is Not Secure; Here's Why." *Digital Trends*, 23 Aug. 2013, www.digitaltrends.com/computing/can-email-ever-be-secure/.
- "Exactly How Emails Works - Steps and Explanation." *Interserver Tips*, Aug. 2018, www.interserver.net/tips/kb/exactly-emails-works-steps-explanation/.
- Yatri Trivedi. "How Does Email Work?" *How*, How-To Geek, 22 Sept. 2019, www.howtogeek.com/56002/htg-explains-how-does-email-work/.