

Starting this class, I didn't have any knowledge about the python coding language as this was new territory for me. In fact if I was asked about what I knew about python before taking this class, I would have probably responded with something funny as in, "Is that not the funny computer language named after a snake?" This was actually in fact the first major coding language that I got to learn during my time pursuing anything in my computer tech field, networking or interactive media. This was certainly a nice change of pace while also a great and challenging introduction to coding.

When I first started coding this project, I had the first impression that it was going to be as simple as typing out a paper or riding a bicycle. The bicycle came with a few surprises when I started out what I thought was going to be a simple cybersecurity alert system as phrases that I figured would work in python or coding overall, did not work. And with VScode's suggestions and the slight assistance of copilot at my side, I can safely say that this project was one of my favorites to have designed. But now the question is, what does the system do?

When the program was first being planned out, I wanted it to be a simple detection system where it would alert the operator to any forms of malware or suspicious IP activities on the computer. As the program was being formed, ideas of it sending emails to the users through the SMTP with the email detailing the threat. Then followed with more options like routine system checks and unauthorized access attempts that would be emailed when they would occur. This would all happen once the program starts up and it would continuously monitor the system until the operator had ordered it to stop. It's a rather simple program that can be built upon and improved for further usage as technology advances.

As mentioned previously, the program starts its monitoring process once it is initiated through the command prompt and it will continue until it is stopped. In the current state that it is released, the operator will need to input their email information and the address it'll send to. As mentioned before, it is meant to be simple and a program that can be built upon for further advancements. Whether it be monitoring certain file locations or other ideas that the operator may come up with. The program will also create a log file that will hold the threat details along with the timestamp as to when the encounter has occurred. Overall, I had a blast designing this complex yet base program. Though I think with my next python coding project, I will be sticking to a smaller and simpler idea.