**Reflective Report** Saurav Kafle

The Caesar cipher coursework has been a challenging task for reflective me. But I have learned a lot from it. And In this reflective report, I will attempt several questions regarding this coursework.

1. What are the most challenging aspect of the coursework task?

* The most difficult part in this coursework was to find the reason for the use of caesar cipher encryption/decryption. Another difficult part of this coursework was to implement the logic correctly in the python program. The functions as well as nested functions which are required to complete the task has made it difficult to implement the ceasar cipher in a python programming. It was hard to operate the ceasar cipher in both file mode as well as in console mode. It was also tough to manage the mistakes during function calls. and also while running the the code it produces an error so i had to rewrite the code again and again. also we need to follow the PEPS coding standard which makes it quit tough for us.

1. How did you go about completing the task?

* My main goal when starting my coursework was to implement the Caesar cipher encryption and decryption system. Also, I had to ensure that it functioned in all words and didn't have any errors while running the program. Then, I implemented the enter\_message() function, which would ask the user for the conversion mode before encrypting or decrypting the message. Afterthat, I started putting the file message to the file handling portion of the coursework. Also,I began to implement the is\_file() and process\_file() functions, which would encrypt and decrypt a file, produce a list of lines, and then pass that list to the write\_messages() method, which would then write those lines to the results.txt file.

1. What have you learned over the course of completing this coursework task?

* I have learned many things by completing the coursework. Some of them are mentioned below:

a) I learned to create and test different inputs which helps to develop my skills in debugging.

b) I learned writing comments and documentation for code improves its readability and helps others to understand the process.

c) I learned to open files, read contents in it, manipulate them from there and write them in other files.

d) I learned to use the encryption and decryption methods for secure sensitive information.

e) I learned try and except can be used to handle python errors correcty keeping the user informed about erros without interupting the process.

f) I learned the capability to break an issue down into smaller, more manageable parts and provide a structured solution.