Project Title- Encryption using data structures

Group Members- Akeel Ather Medina, Shayan Ahmed Shariff

Project Description- A program to encode and decode secret messages via implementation of a basic Caesar Cipher through a circular queue. The specific implementation will aim to be more secure than a standard Caesar cipher by having variable settings for the letter shift and any further encryption employed. This way one can change the settings every day and get a sizeable number of possible permutations thus making it hard to intercept, much like Enigma.

Project Outcome- We will have a secure message transmission system using a data structure, and in the process find the most efficient (in terms of worst case complexity) algorithm to encode and decode our messages by analyzing multiple implementations.

Libraries used- Python, tkinter