Module 5 Encryption Activity

I began this encryption exercise by implementing XOR encryption accounting for key lengths specifically on line 44 where a function was added to an existing statement which provides information on how many different key values a key can accept in a specific protocol. The next step required the implementation of loading the file into a string or loading the text file into a single string which was accomplished on line 67 in the read\_file method. Using the rdbuf() and the str() functions, the associated string buffer was managed and the file\_text was output. The save data method requirements were accomplished by implementing file saving through a series of functions with the ability to save the text file in the specified format. The time\_t function was utilized for the current time while the conversion to a string was accomplished with the ctime statement being written to return a pointer to a string in the form of weekday, month, date, hours:minutes:seconds year. Using outfile.open(filename) and an output statement, the various files were then output to their respective locations. The debugging process took some unexpected turns as I had to use \_CRT\_SECURE\_NO\_WARNINGS to disable deprecation due to the ctime function.

