



UNIVERSITY OF
WOLVERHAMPTON



HERALD
COLLEGE
KATHMANDU



**REPORT
ON
Caesar Cipher (Coursework – 1)**

By:

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**An Independent Caesar Cipher (Coursework -1) Report
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4CS001 | Introduction Programming and Problem Solving**

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

➔ While doing this project, the challenging is that I won't be able to do encrypt and decrypt and it takes a lot of time to make the function encrypt to run. I have tried a lot of method to do encrypt but using for loop for encrypted makes me that I can do this task. The easy task is to do decrypt that just changing the shift value to negative and passing it into encrypted function, we can easily decrypt the data. It took 2 days for me to do the encrypt and decrypt function. Moreover, another challenging factor is to connect file and using file to implement and encrypt and decrypt the data. At last, the predefined function creates me some challenges to implement the code. The predefined function makes me confusing what to do which took a day for me to analyses how to implement the function and makes the code runnable.

2. How did you go about completing the task?

➔ To completing the task, it took me 9 days to finish without any error. The most interesting part is, at last the one shot of coffee make me fixing the final error of my code and it is executable. As I mentioned in above question, the main challenging part is non-customizable function part which makes me confuse and takes two days for me to analyses the how each function should work in my code and how can I execute it to without customize the function. In the first three days, I analyze the instruction and start doing the code from the third days. In the third and fourth day, I start coding the main function and doing other function rather than the part of file handling. Furthermore, it takes me 3 days to do the file handling code and a day to debug the code and makes the code runnable.

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

➔ The first thing that I learned by doing this coursework task, I know how to design the algorithm and do the task in the set of sequences. Another thing is that Data Structure, and handling the error which arise from python standard library and custom user-defined function. Using the loops and condition statements I know how to control the flow of my program which traverse through characters in the text and apply encryption or decryption rules. Implementing different function, I know how to use different function properly and run the function as per the requirement of my program. Exploring various string

manipulation techniques, I am able to encrypted or decrypted message. By running the code, I am able to test the input, function calling, identifying the error and fixing the potential issues. At last, I know how to solve the problem by making the set of sequence of instruction and working in it and I am totally aware about how to organize the project and manage it.