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Questions:

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

For this coursework I did not find that much of toughness than doing mergeSort in Java. Since python was quite familiar to me, I found this task way easier than mergeSort. Beside this there was quite difficulties in implementing the upper case and lower-case string while prompting commands from users like the specific message they want to encrypt or decrypt. Using calling other functions at the end of the program was bit confusing to me since it is used to call other functions in the program which means welcome function was defined at the top and we called it again at last. Implement a way for the program to automatically determine the key for decrypting a message if the key is not known was also challenging for me. Not only this, finding ASCII code value was also challenging to some extent.

2) How did you go about completing the task?

So, in order to complete the coursework initially I researched what actually Caesar cipher was through YouTube and google. I also looked at those slides of python related to function which was a bit confusing for me. I cleared all those concepts of functions and calling it in program. I also searched for ASCII value of different characters. The concept of docstring was not familiar to me which I somehow managed to know in small period of time since the deadline of the coursework was at my doors. I believe I have managed to put enough comments on the code.

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

After I complete this coursework, I knew so many things which was unclear and in doubt to me. I learned string manipulation in python, basic encryption decryption techniques, control flow and loops, problem solving, module value and ASCII values. Not only this but personally I get to know that Caesar Cipher was the earliest and simplest technique of encryption and decryption. Additionally, the Caesar Cipher can also be used as a tool for teaching basic concepts in cryptography, such as the idea of a "key" and the importance of keeping a secret key secure.