

SSN College of Engineering
Department of IT
A Section
Ex-06

Assignment Date : 28.11.2022

Submission Deadline: 07.12.2022

Assignment Topic : String and File Operation

Encoding and Decoding

Get name from the user, get the language he/she preferred (say Tamil).

Construct a class Stock.

Display the information about the stock by reading it from stock.txt in the format given below.

<u>Company</u>	<u>Rate</u>	<u>Date</u>	<u>Time</u>
HCL	1,125.00	28.11.2022	10.12 AM
Infosys	1,640.25	28.11.2022	10.13 AM
Wipro	404.85	28.11.2022	10.14 AM

Question 1 (Odd Numbered Students)

Spam Detection

Surf and analyze the way the spam detector that works in your Gmail.

Basically, it identifies based on contents/words/subworlds present in the mail.

Store a file in system which consists of Spam words let's say it as bag_of_spam.txt.

Get an input file from the user test.txt. Read the file, if the file consists of 40% and above the spam content declare it as Spam file else genuine file.

Replace the Spam content with an empty string and store it in a file & name it as modified_spam.txt

Encryption & Decryption (Even Numbered Students)

Get the file from the user plain{reg_num}.txt, which consists of many username and password of different users. Wherever you are looking for password, you encrypt it using any Hash Function, replace the password with the encrypted text and store it in crypt{reg_num}.txt

Have a decryption algorithm which does the reverse operation. It reads `crypt{reg_num}.txt` and return `reconstructed{reg_num}.txt`

Compare the text in `plain{reg_num}.txt` and `reconstructed{reg_num}.txt` and tell the correctness of your encryption and decryption algorithm in percentage. (If all strings are same 100%)