**Assignment 3**

***Exercise 1*** *(2 mark)*

Write application to create a chain of random char. Number char is input from keyboard, using allocate dynamic memory to allocate memory for a char\*. After printing the result, free the memory that allocated.

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Enter size of random string: 30

Random string: phqghumeaylnlfdxfircvscxggbwkf

***Exericse 2*** *(3 mark)*

Write application allow user input mark of English skill listening, speaking, reading and writting, then calculate the average mark of student. Using passing pointer to function, the input process inside of function with paremeter pass by reference.

***================================================================================***

Enter the marks of English subject

Enter the mark of Listening skill [1-10]: 7

Enter the mark of Speaking skill [1-10]: 8

Enter the mark of Reading skill [1-10]: 9

Enter the mark of Writting skill [1-10]: 10

Your mark of English subject: 8.5

***Exercise 3*** *(5 mark)*

Write application allow user input 5 email address. Save all email in an array of char pointer.

Requirements:

* Check all email address if have only one char @, the length of email address must be greater than 7 chars. If the email wrong, the user must enter email until email is right.
* Sort the array of email by a, b, c… and print the result.
* Print the emails in upper case.

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Please enter 5 email address

Enter a email address: peter@gmail.com

Enter a email address: marry@gmail.com

Enter a email address: tom@yahoo.com

Enter a email address: sandra@hotmail.com

Enter a email address: jack@gmail.com

List of emails unsorted

peter@gmail.com

marry@gmail.com

tom@yahoo.com

sandra@hotmail.com

jack@gmail.com

List of emails sorted

jack@gmail.com

marry@gmail.com

peter@gmail.com

sandra@hotmail.com

tom@yahoo.com

List of emails sorted, uppercase

JACK@GMAIL.COM

MARRY@GMAIL.COM

PETER@GMAIL.COM

SANDRA@HOTMAIL.COM

TOM@YAHOO.COM

Press any key to continue . . .