## Programming Assignment 5 - Optional
## Due Wednesday   April 24<sup>th</sup>   ,   2019

Write a program in C  that does the following :

1. **Display the content of the current Directory.**
2. From the current directory copy the file "Zold.c" to "Znew.txt"
3. Displays the content of the file  Znew.txt
4. Displays the size of the file  Znew.txt
5. Count and display number of words in Znew.txt
6. Count and display number of characters in Znew.txt
7. Count and display the number of lines  in Znew.txt
8. Count and display  number of lines that ends with ; in Znew.txt

9. Delete Znew.txt

# Rules :

1. The programs must be syntactically and logically correct. The program will be tested **using the zeus ( Unix OS )** at the university.
2. The programs must be documented and your names , course and section number , your group number, assignment number , due date , and instructor's name should be included as part of your program documentation. A brief description of the program must also be included
3. Must properly **format** the output as shown above .
4. You must upload your solution **using TRACS** – Make sure you include the above as comments in your program. Make sure that you name your homework document as follows :

      **Z#PA5.c**      **where # is your serial number**

      **For example Z100PA5.c**

      **Every group member must also upload the program.**

8. You must also turn in hard copy of your source code on the due date class time. The hard copy must be stapled. if you are unable to turn a printout in during class, you can turn it in to the computer science department office (Comal 211 ) before the deadline. They will date & time stamp it and they will place it in my mailbox.

    **No late assignment will be accepted.**

    **Only one hard copy per group.**

9. Must place the following information on top left of the first page of your assignment as comments

    **NAME :** _____ **CS 4350 – Unix Systems Programming**

    **Serial Number:**
    **Group Number:**
    **Assignment Number:** _____
    **Due Date: 4 / 24 / 2019**

- **DO NOT** slide hard copy of your program under my office door.

## The following points will be deducted if :

- Compilation Errors, missing electronic copy ,  missing the hardcopy , not written in c programming language, submitting .zip file, submitting files other than   .c     … etc                **( - 10 points )**

- Logical Errors   **(  at least  1   points )**

- Other **(   at least  1.25   points )**   if **any** of the following takes a place :

  - Unable to read the source code due to unclear printing
  - Incorrect Output format.
  - Incorrect program file name,  data file name.
  - Hard copy is not stapled.
  - More than one hard copy per group.
  - Incorrect Style **such as but not limited to** Missing Header  comments, missing footer  comments, not replacing my name with your name,  missing serial number ,  missing section number , missing program documentation , not replacing my name with your name … etc.

# Sample Run

Directory  and File  Manipulation

The content of the current Directory :-

.

.

.

"Znew.txt"  is   Created :

The content of  Znew.txt

.          .             .
.          .             .

The size of  Znew.txt  :

Number of words in  Znew.txt  :

Number of characters in  Znew.txt  :

Number of lines  in  Znew.txt  :

Number of lines that ends with ; in  Znew.txt  :

Znew.txt file deleted successfully

Implemented By   Husain Gholoom

4 – 24 - 2019