Jordan University of Science & Technology
Department of Network Engineering and Security
NES416- Network Programming
Programming Assignment 1

Due Date: see course website

Purpose: Refresh C-programming skills
**Note: this assignment is done individually NOT in a group*

Description:

In this assignment, you are required to write a ***stand-alone*** C program under UNIX/Linux that displays a menu for the user to select a mathematical operation and return the result

Requirement:

You need to implement your own code, and you are responsible to make sure it is your own writing.

The program, once started, displays a menu for the user. The menu displays operations for the user to select from. When the user selects an operation, he/she is prompted to enter 16-bit integer(s) for that operation, the program computes the result, displays it on the screen, and re-displays the menu again. If the user selects to exits, the program terminates.

The menu has the following format:

1. Add
2. Modulus
3. Complement
4. Power
5. Exit

If the user selects option1, he/she is prompted to enter two 16-integer (positive or negative), to perform addition operation of the two integers properly

If the user selects option2, he/she is prompted to enter two 16-integer (positive or negative), to perform modulus operation of the first integer to the second one properly

If the user selects option3, he/she is prompted to enter one 16-integer (positive or negative), to perform it one's complement properly

If the user selects option4, he/she is prompted to enter two 16-integer (positive or negative), to perform first integer to the power of the second one properly

Submission:

- You files should follow the following naming convention: yourID_HW#
    - INSIDE YOUR FILE, indicate group members (in any) as a comment
- Submit a zipped file containing only the course code (following the naming convention) and a screen shot of compiling and running your code

Notes/Hints:

1- make sure you check-error your code , and test your code thoroughly
2- Make sure you comment your code reasonably
3- Submit your source code using the link of the elearning site.
4- Your programs should be compiled and run without any single error or warning.
5- Use structured programming style. i.e use as many functions as possible in your implementation
6- Ubuntu 16.x will be used as grading environment