C291 – System Programming in C and UNIX

Assignment 3

Task:

Write a c program octal addition or multiplication on given two numbers.

1. User inputs will be in hexadecimal format
2. Convert hexadecimal numbers to octal numbers
3. Perform addition or multiplication on octal numbers
4. Convert the result into binary
5. Output the result in binary

NOTE: You are required to code only in open terminal. You should not use any IDE.

Bonus Points:

If you do an early submission on or before 09/28/2015 11:59 PM you will get 10 points bonus

If you reuse functions you will get bonus points based on function reusability. The max bonus point can be 30 points.

Due Date:

The submission is due on Monday 09/30/2015 11:59 PM

NOTE: Late submissions are not accepted for this assignment.

What to turn in:

Upload .c file in canvas. We'll grade whatever version you've put there at 11:59PM on the due date.

Academic Integrity:

You may discuss the assignment with other people at a high level, e.g. discussing general strategies to solve the problem. You may also consult printed and/or online references, including books, tutorials, etc., but you must cite these materials in report. However, if you are submitting the code, then it must be your own work, which you personally designed and wrote. You may not share written code with any other students, nor may you possess code written by another student either in whole or in part, regardless of format. The professor and AI's are always available to help, so reach out through canvas if you need one!

Rubric:

- You will get 50% of total marks on successful compilation of program without any errors
- You will get 70% of total marks on successful execution of program
- You will get 90% of total marks on passing all test cases
- You will get 100% of total marks based on your code clarity
- The following falls under clean code
    - Proper names for variables.
    - Follow camel case patterns.
    - Comment where ever needed
    - Check for valid inputs & valid range
    - Output unambiguous & user friendly messages