Class Activity #2

Part 1: UNIX

1. Continue exploring Linux/UNX on your own PC or the Linux VM on one of the classroom PC's. By next week you should be familiar with most of the bold Linux commands listed on the Class Topics page.
2. What UNIX commands would you use to do the following:
   - **a.** Write the sorted contents of list.txt to a text file called sorted.txt
   - **b.** Create a new file called note.txt using the cat command
   - **c.** Say there are several text files called list1.txt, list2.txt and so on. Create a file called alllist.txt that is a sorted list of the contents of all of these files without repeats.
   - **d.** Give an example of the use of the tee command
   - **e.** Find all C files in ~/projects
   - **f.** Find all .txt files larger than 1000 bytes in your home directory
   - **g.** Display a sorted list of all files under the current directory.

Part 2: C

1. Review Types, Operators, Expressions, & Control Flow (K&R Chapters 2 & 3).
2. 2-3: Write a C function htoi(char * s) which converts a string of hexadecimal digits (including an optional 0x or 0X) into its equivalent integer value. The allowable digits are 0 through 9, 'a' through 'f', and 'A' through 'F'.

Submission information:

1. Create a single, neatly formatted document (.txt, .doc, or .pdf) with the following:
   - **a.** Your responses to question 2 in part one.
   - **b.** A copy of your complete source code for Part 2 #2 **with sample output**.
2. You may submit a hard copy or via Canvas.