Assignment 1: Answers

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| Question | answer |
| 1 | vi (yours may be different) |
| 2 | /home/<UserName>  The output is the absolute current directory |
| 3 | MKDIR(1) User Commands MKDIR(1)  The output is the manual of the command mkdir |
| 4 | mkdir: missing operand  The command mkdir is used to create a new directory |
| 5 | Usage: mkdir [OPTION]... DIRECTORY...  The output is a concise help message for the command mkdir |
| 6 | 1. mv is used to rename a file/directory or move file(s)/directory(s) to another location in the file system;   b) cd is used to change the current directory;  c) -rw-------. 1 <user> <group> <file\_size> Jan 5 10:33 <file\_name>  ls is used to display the contents of the current directory. |
| 7 | 1. \_\_\_\_\_\_/usr/local/bin\_\_\_\_\_(your output may be different) 2. set: Set or unset values of shell options and positional parameters. Change the value of shell attributes and positional parameters, or display the names and values of shell variables.   grep: searches the named input FILEs (or standard input if no files are named, or if a single hyphen-minus (-) is given as file name) for lines containing a match to the given PATTERN.  echo: Write arguments to the standard output. |
| 8 | cat -n hello.c | sort -nr |
| 9 | 1. <three numbers followed by file\_name> 2. number of lines, words, characters 3. wc -w <file\_name> |
| 10 | print 3 lines of leading context before “printf” matching lines in each C source file of current directory |
| 11 | hello.o; This is an object file, which is a machine language file. |
| 12 | a.out; we can run it by typing ./a.out |
| 13 | No; the new file flip.txt is created; > is used to redirect standard output of a program to a file. |
| 14 | hello world  cat is used to concatenate files and print on the standard output |
| 15 | rm is used to delete files; rm \*.o |
| 16 | 1. square roots of the two input numbers; 2. square roots of the two numbers in the file; > is used to redirect standard output of a program to a file; < is used to redirect standard input of a program from a file. |
| 17 | 1. TestAssert: TestAssert.c:10: main: Assertion `i>=10' failed; 2. You entered: 11;   (c) make sure a condition is satisfied and abort the program if not. |