Exercise 5

Due:

1. The command **rmdir** should be used to delete a non empty directory. [2 marks]
2. What is the sudo command used for? Explain. [2 marks]

**A: The sudo command is used by the system administrator to perform commands as the superuser or another user. Can also be used to give permissions to other users.**

1. Answer the following questions- [4 marks]

In the linux operating system the home directory is referred to by the tilde (~) character. Thus, typing the command: **ls ~/mystuff**

will show the content of the mystuff directory under your home directory,

no matter what your current working directory is.

* 1. Based on the above elaboration what do you think the following command will list?

## Ls ~

**A: Lists contents of the home directory.**

* 1. How about this one:

**ls ~/..**

**A: Lists contents of the parent directory of the home directory.**

4. Consider we use the following command to change the access permission of a parent directory “flower”, explain how the permission will affect its sub directories and files? [2 marks]

chmod -R u+rwx,g=r,o-wx flower

**A: Will change permission of flower and recursively change permissions of files and subdirectories in ‘flower’. User can read write execute, group can only read, other cannot write or execute.**

5. You are writing a program. You need to be able to read, write and execute the program. You want everyone else (group and others) to only read your program. How you can ensure that? (Use octal representation) [2 marks]

**A: chmod 744 ‘program’**

6. What is the command to remove write permission for User, Group and Others of the file 'red.txt'? (Use symbolic representation) [2 marks]

**A: chmod ugo-w**

7. Discover the umask command (answer each of the following questions) [6 marks]

a) Display the value of umask.

b) Assume the umask value of 0057 is set for the normal user. Find out what will be the default permissions for newly created files and directories. You should show your work.

c) Create a new file named testmask.txt. and list the permissions of this file. Copy the output from the terminal and paste here.

**A:**

**a) Use command umask to find umask value. Value is 0077.**

**b)**

**666 110 110 110**

**- 057 000 101 111**

**= 620 110 010 000**

**file permissions are 620**

**777 111 111 111**

**- 057 000 101 111**

**= 720 111 010 000**

**directory permissions are 720**

**c)**

