

# **MCS172- UNIX OPERATING SYSTEM**

## **Task for Lab 1 – 5/8/2020**

### **CIA Rubrics for Lab1:**

- 1. Correctness of the program (5 marks)**
- 2. Concept Clarity and complexity (5 marks)**

### **I. Demonstration of UNIX Basic Commands:**

1. Create a new directory called **MCS** in your home directory.
2. Create a file called **DOC1.txt** inside of **MCS** without changing directories explicitly.
3. Append the numbers 1, 2, and 3 to **DOC1.txt** so that each number appears on its own line.
4. Print **DOC1.txt** to the command line.
5. Use output redirection to create a new file in the **MCS** directory called **DOC2.txt** which lists the files and folders in your home directory.
6. Find out how many characters are in **DOC2.txt** without opening the file or printing it to the command line.
7. Create a file called **file1.txt** in your home directory and move it into another directory.
8. Delete **file1.txt** without using rm. Apply **sort cmd in background mode to sort the text file and also count the frequency of each unique words in the textfile and display the output in another file called soredfile.txt**
9. Explore all options of **ls, chmod, and chown** and explain all the options in one line with an output.
10. Implement pattern matching using **grep and find cmd** . Write the similar and dissimilar behaviours with your own example.

### **Optional**

#### **II. Demonstrate the use of following command**

- a) Nohup
- b) su , passwd and sudo
- c) Creation of user and group using unix cmd