**OS Lab Assignment-2**

Date : 1/8/2018

**Objective**

The object of this assignment is to familiarize you with the vi editor and see some shell scripts in action.

**Exercises**

1. Write a shell script to create a file named demo.txt and enter the following text in the file.

*The kernel is a computer program that is the core of a computer's operating system, with complete control over everything in the system. The critical code of the kernel is usually loaded into a separate area of memory, which is protected from access by application programs or other, less critical parts of the operating system. The kernel performs its tasks, such as running processes, managing hardware devices such as the hard disk, and handling interrupts, in this protected kernel space. Kernel concepts are discussed in chapter 3 . In chapter 11 , we will get more details on how unix kernel functions.*

2. Write a shell script that

a) searches from the file created in Ex.1 for all those words starts with ‘t’, as well as, all those words starts and ends with ‘t’

b) count the number of times the word kernel appears

c) identifies all the numbers in the file; find their sum;

3. Write a shell script to retrieve all c files in the present working directory and compile them.

4. Write a shell script to backup files in a specified directory

5. Write a shell script that reads a filename from the user and displays whether it is a file, directory, or something else. If it is a file change the permissions to read only for all types of users.