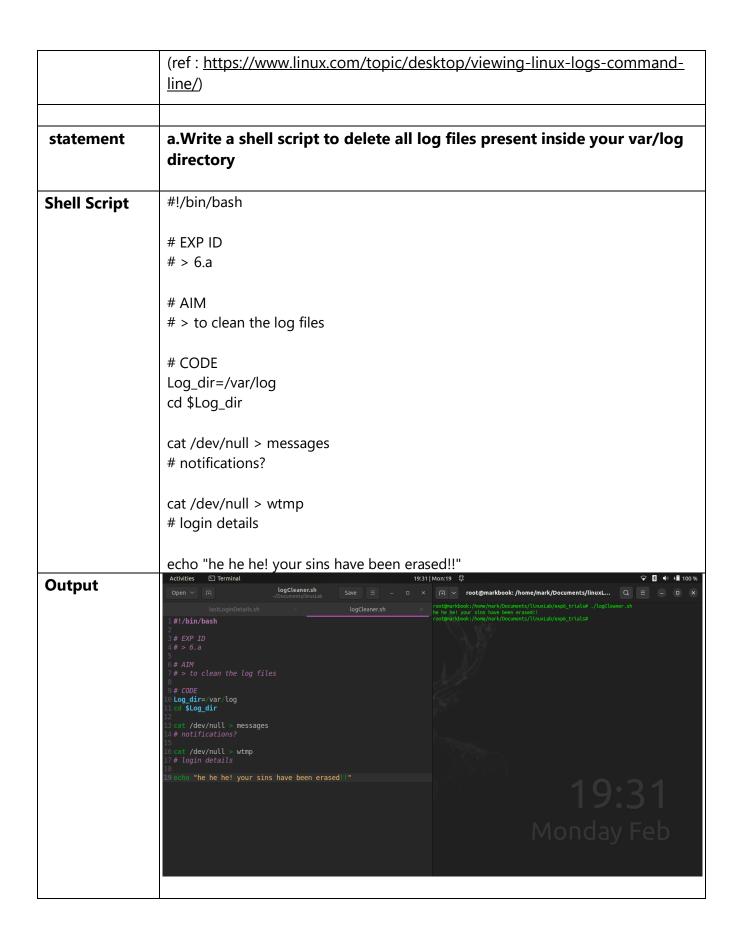
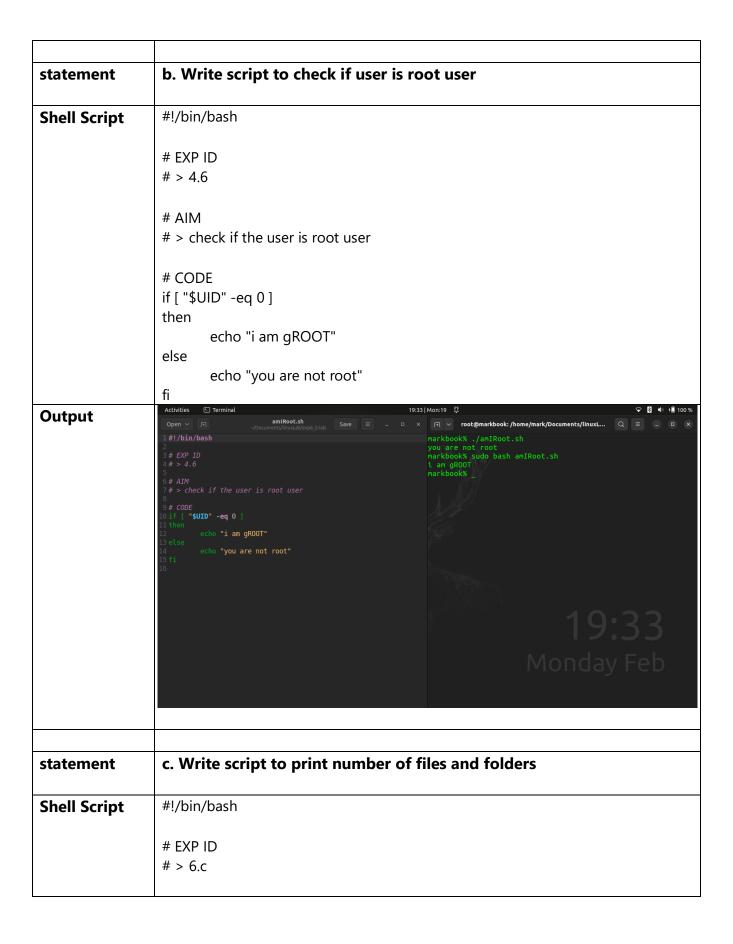
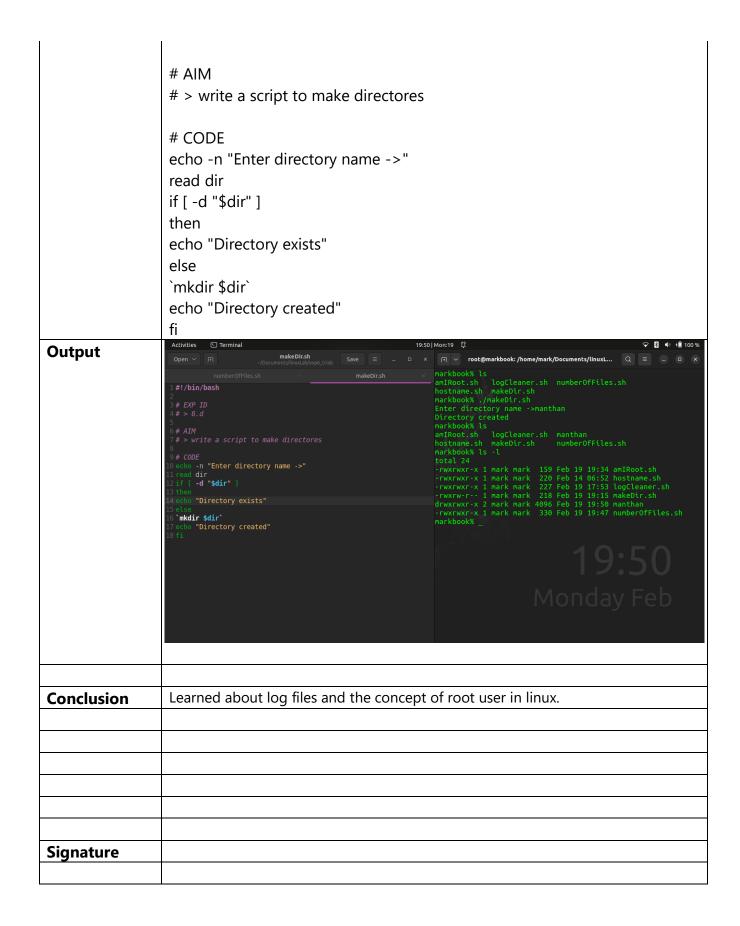
	Experiment No : 6 Date :	
Title	Delete all log files, Create Directories, Check user, print file and folder	r
Aim	a.Write a shell script to delete all log files present inside your var/log directory b. Write script to check if user is root user c. Write script to print number of files and folders d. Write Script to Create Directories	
Hardware Requirement	Personal Computer	
Software Requirement	Linux Operating System(Ubuntu 20.04) , Shell-Interpreter Nano or Vi or Vim or gedit text editor	
Theory	The log file is a file that records either events that occur in an operating system or other software runs. In here, the Linux servers have log files which keep messages about the server, including the kernel, services, and applications running on it. And the log files are located at the /var/log directory. Mainly there are four types of log files generated in a Linux based environment and they are: • Application Logs. • Event Logs. • Service Logs. • System Logs.	
	Uses of Linux log files From the log files, one can observe and find the details on server performance, security, error messages, and underlying issues. Hence any issue that the server is undergoing one can get the clue by detailed view on the log files. Hence by reviewing the log files one can solve the existing issues and can take precautions for the issues that may cause in future! Log Files can also be viewed with following command • Viewing logs with less • Viewing logs with dmesg • Viewing logs with tail	





```
# AIM
                                  # > print number of files and folders
                                  # CODE
                                  #navigate
                                  cd $PWD
                                  if [ -d "$@"]
                                  then
                                               echo "files found: $(find "$@" -type f | wc -w)"
                                               echo "folders found: $(find "$@" -mindepth 1 -type d | wc -w)"
                                               # mindepth to avoid the . directory
                                  else
                                               echo "[ERROR] PLEASE TRY AGAIN. "
                                               exit 1
                                  fi
Output
                                                              numberOfFiles.sh
                                                                                                           markbook% Is
amiRoot.sh logCleaner.sh numberOfFiles.sh
hostname.sh makeDir.sh
markbook% ./numberOfFiles.sh
files found: 5
folders found: 0
markbook% cd ..
markbook% ./exo6_trials/numberOfFiles.sh
files found: 253
folders found: 129
markbook% echo yes i have initiated a git repo here
yes i have initiated a git repo here
markbook%
                                   .
L#navigate
2 cd $PWD
B if [ -d "$@" ]
                                               ho "files found: $(find "$@" -type f | wc -w)"
ho "folders found: $(find "$@" -mindepth 1 -type d
                                 d. Write Script to Create Directories
statement
Shell Script
                                  #!/bin/bash
                                  # EXP ID
                                  \# > 6.d
```



	+
6 1	
Grade	
	+
D-1-	+
Date	
	Experiment No : 6A
Title	Accepts the hostname and IP address
Aim	Write a script that accepts the hostname and IP address as command-line
	arguments and adds them to the /etc/hosts file.
Hardware	Personal Computer
	r eisonai Computei
Requirement	
Software	Linux Operating System(Ubuntu 20.04) , Shell-Interpreter
Requirement	Nano or Vi or Vim or gedit text editor

HostName Theory A host name is a unique name or label assigned to any device that is connected to a specific computer network. It facilitates the differentiation of different machines or devices connected to the Internet, a network and/or both. Allotted and assigned host names are based on the naming system used. **IPaddress** An IP address, or Internet Protocol address, is a series of numbers that identifies any device on a network. Computers use IP addresses to communicate with each other both over the internet as well as on other networks. **Sed Command** Sed command or Stream Editor is very powerful utility offered by Linux/Unix systems. It is mainly used for text substitution, find & replace but it can also perform other text manipulations like insertion, deletion, search etc. With SED, we can edit complete files without actually having to open it. #!/bin/bash **Shell Script** # EXP ID # > 6A# AIM # > accept hostname and ip address and add to /ect/hosts # CODE read -p "Enter hostname: " hname read -p "Enter IP address of the host: " ip # sed -i.bkp "\$a \$hname \$ip: /etc/hosts" echo "\$ip \$hname" >> /etc/hosts # the >> makes it append the file and > makes it trunkate the file

Output	Activities © Terminal 20:09 Mon:19 ♀ ♀ ♀ • • • • 10 0%
Julpul	
	1#!/bin/bash markbook% ls
	amIRoot.sh hostname.sh makeDir.sh
	3 # EXP ID file logCleaner.sh numberOfFiles.sh 4 # > 6A markbook% ./hostname.sh
	5 Enter hostname: manthan
	6 # AIM 7 # > accept hostname and ip address and add to /ect/hosts This is a strength for the host: 192.168.7.7
	8 markbook% sudo ./hostname.sh
	9 # CODE 10 read -p "Enter hostname: " hname Enter IP address of the host: 192.168.7.7
	11 read -p "Enter IP address of the host: " ip markbook% cat /etc/hosts
	12 # sed -i.bkp "\$a \$hname \$ip: /etc/hosts" 127.0.0.1 localhost
	14 echo "\$ip \$hname" >> /etc/hosts
	15 # the >> makes it append the file and > makes it trunkate the # The following lines are desirable for IPv6 capable hosts
	16 fe00::0 ip6-localnet
	ff00::0 ip6-mcastprefix
	<pre>ff02::1 ip6-allnodes ff02::2 ip6-allrouters</pre>
	192.168.7.7 manthan markbook%
	20.09
	Monday Feb
<u> </u>	
Conclusion	Learned to add server adress in /etc/host file in linux.
CONCIUSION	
Cianata	
Signature	

Date	
Grade	