# **Experiment 1**

#### Aim

Getting started with Linux basic commands and directory structure, execute file, directory operations.

### **Creating Files and Directories**

touch <filename></filename>	create a new file
mkdir <dirname></dirname>	create a new directory

### **Current/Working Directory**

Current Directory can be found out by pwd. pwd stands for "print working directory"

### **Change Directory**

command cd is used to change directory cd <dirname>

### **Special Directories**

Current Directory	
Parent directory of the current directory	
Home Directory	~
Root Directory	/
Another user's directory	~ <username></username>

### Viewing contents of a text files

at <filename></filename>	display the text scroll off the screen
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cat <file1> <file2></file2></file1>	concatenate two files
more <filename></filename>	display the file one scornful at a time
less <filename></filename>	similar but faster than more

# Listing files and directories

Is	list files in the current directory
ls -l	provide a long listing of all files
ls -l -h	same as above command but size will be in human readable forms
Is -F	marks all executables with * and directories with /
ls —color	shows a coloured listing of files
ls -a	shows all files in the present directory including special dot files

## Copying files and directories

cp <file1> <file2></file2></file1>	copy file1 to file2
cp <file1> <dirname></dirname></file1>	copy file1 to directory dirname
cp -r <dirname1> <dirname2></dirname2></dirname1>	copy dirname1 directory to dirname2 directory recursively

# Renaming and moving files

mv <oldname> <newname></newname></oldname>	renames file with old name to new name
mv <olddir> <newdir></newdir></olddir>	renames directory with olddir to newdir

mv <filename> <dirname></dirname></filename>	moves file to the directory
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## Removing files

rm <filename></filename>	removes file with old name to new name
rmdir <dirname></dirname>	removes empty directory dirname
rmdir -rf <dirname></dirname>	removes a non empty directory

## Some more useful commands

clear	clears the terminal screen
locate	search for a specified filename
passwd	allows to change the password
whoami	displays the current logged in user

## **Getting HELP**

man <command name=""/>	find out what the command does
man -f <command name=""/>	one line summary of what the command does
man -k <keyword></keyword>	search for a command with keyword

# **Directory Structure in Linux (important files)**

File	Content

/bin	Essential User Command Binaries
/boot	Static files of the boot loader
/dev	Device files
/etc	host specific system configuration
/home	user home directories
/lib	essential shared libraries and kernel modules
/mnt	mount point for devices
/opt	add on application software packages
/sbin	system binaries
/tmp	temporary files
/usr	user utilities and applications
/var	variable files
/root	home directory of the root user

# **Executing files**

how to execute a file in linux

- cd to the directory which contains the file to e executed
  type chmod +x <name\_of\_file>
  type sh ./<name\_of\_file>