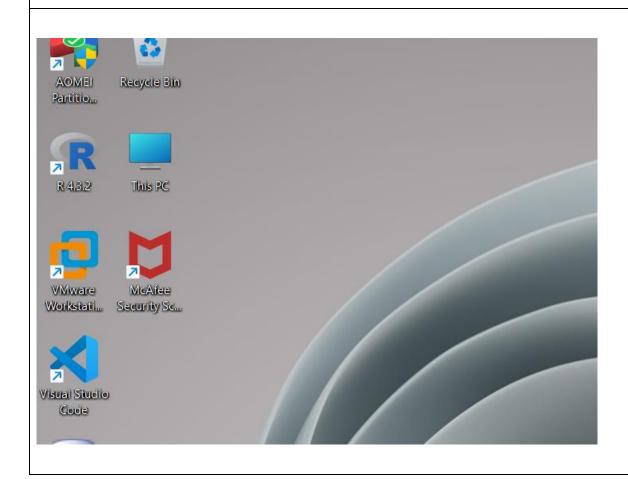
#### **MUHAMMAD BIN IMRAN**

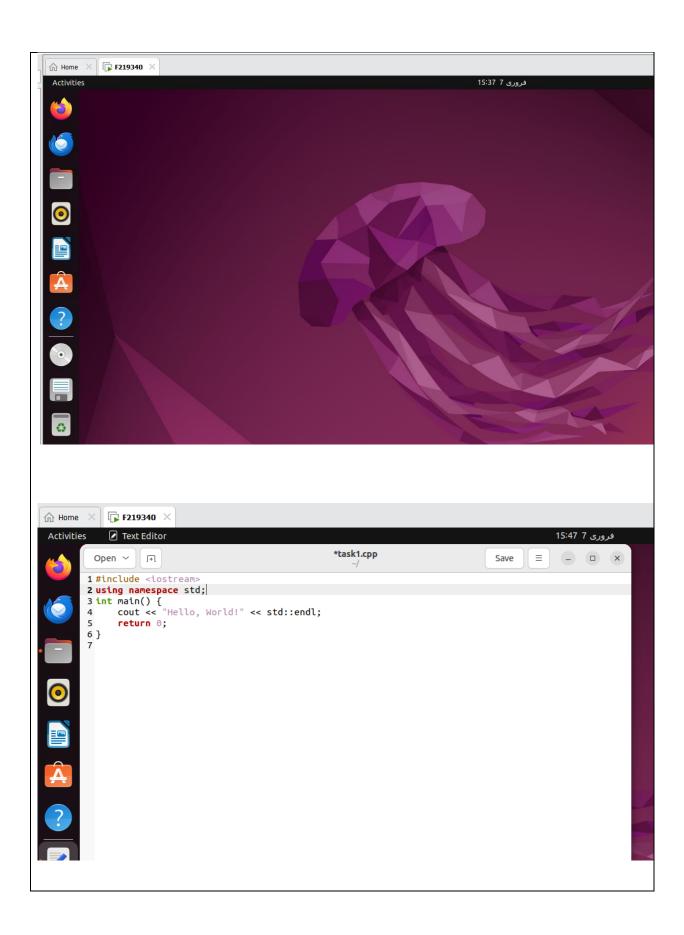
F21-9340

### **SECTION - 6E**

#### LAB NO 3

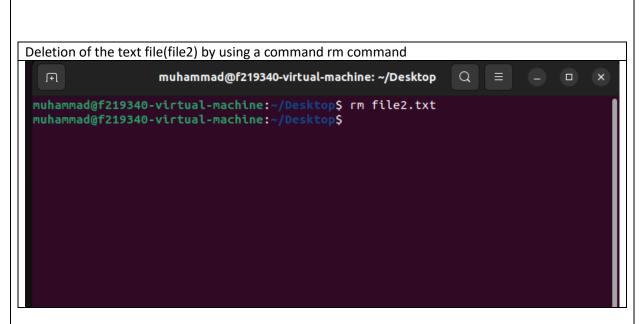
## TASK NO 1

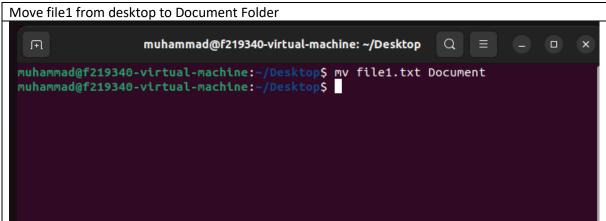




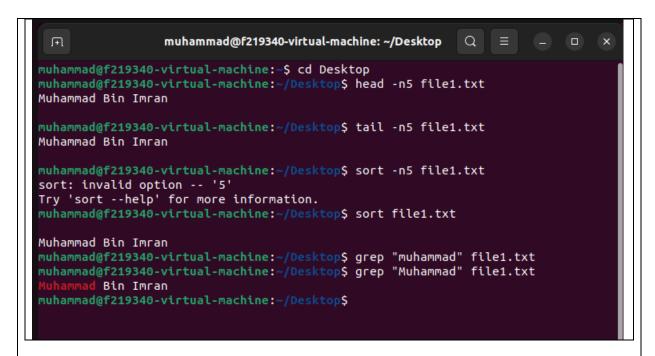
```
muhammad@f219340-virtual-machine: ~/Desktop
muhammad@f219340-virtual-machine: -$ cd Desktop
muhammad@f219340-virtual-machine: ~/Desktop$ chmod +x task2.c
muhammad@f219340-virtual-machine: ~/Desktop$ ./task2
Hello World!muhammad@f219340-virtual-machine: ~/Desktop$
```

# 

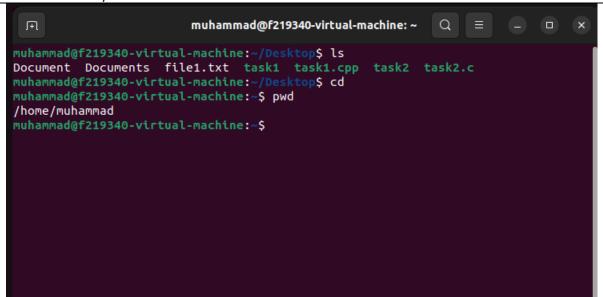




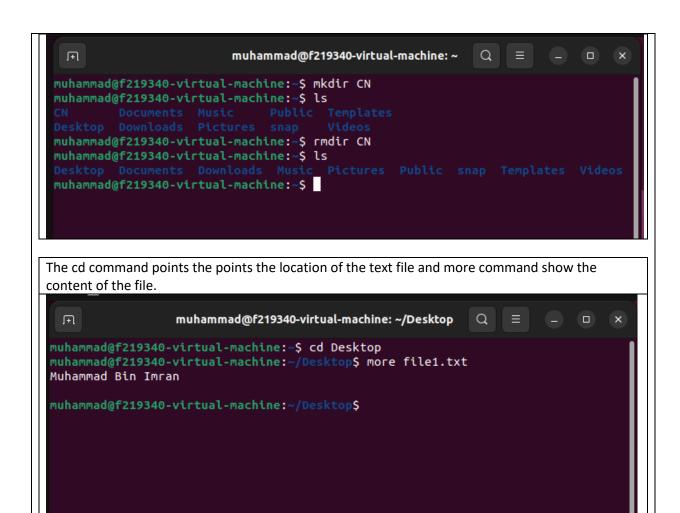
File 1 only has 1 line of text. The head command reads the first line from the text file, the tail command reads the last line from the file, the sort command sorts the unsorted text in the file, and the grep command finds the string from the text file.



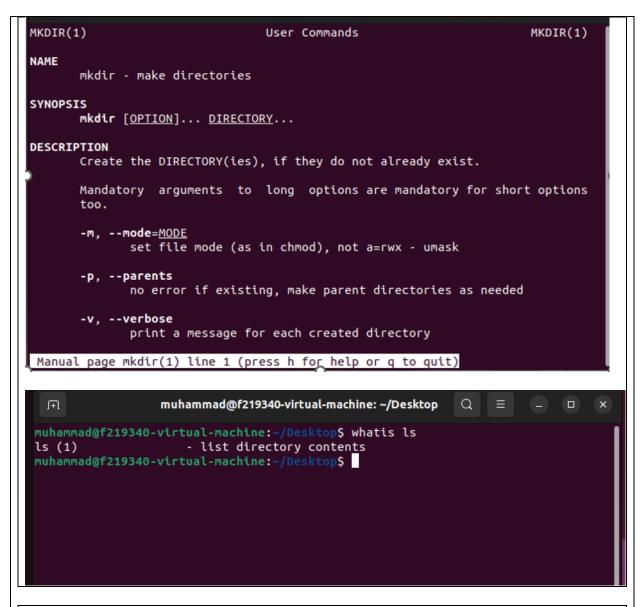
The Ls command shows all the files in the current position and the pwd command shows the current directory.



The Mkdir command creates a new directory rmdir removes the directory.



The whatis command gives the brief description of the directory and list all the directory contents.



"who" command displays the login name, date and terminal." whoami" command shows the user name. The" date" command shows the current time. The clear command clears all the whole screen. The touch command creates a new file and the "exit" command exits the machine. In this I give clear and exit command start with the capital letter that does not work

```
muhammad@f219340-virtual-machine: ~/Desktop
                                                                    Q = - -
muhammad@f219340-virtual-machine:~$ cd Desktop
muhammad@f219340-virtual-machine:~/Desktop$ whatis ls
                        - list directory contents
muhammad@f219340-virtual-machine:~/Desktop$ who
muhammad ttv2 2024-02-07 16:10 (ttv2)
muhammad@f219340-virtual-machine:~/Desktop$ whoami
muhammad
muhammad@f219340-virtual-machine:~/Desktop$ Date
Command 'Date' not found, did you mean:
  command 'gate' from snap gate (9.3)
command 'kate' from snap kate (23.08.4)
command 'kate' from deb kate (4:21.12.3-0ubuntu1)
command 'late' from deb late (0.1.0-14)
command 'date' from deb coreutils (8.32-4.1ubuntu1)
See 'snap info <snapname>' for additional versions.
muhammad@f219340-virtual-machine:~/Desktop$ echo
muhammad@f219340-virtual-machine:~/Desktop$ touch
touch: missing file operand
Try 'touch --help' for more information.
muhammad@f219340-virtual-machine:~/Desktop$ su
Password:
su: Authentication failure
muhammad@f219340-virtual-machine:~/Desktop$
```

```
"passwd" command give the access to change the password
muhammad@f219340-virtual-machine:~/Desktop$ su
Password:
su: Authentication failure
muhammad@f219340-virtual-machine:~/Desktop$ passwd
Changing password for muhammad.
Current password:
New password:
BAD PASSWORD: The password is the same as the old one
New password:
BAD PASSWORD: The password is shorter than 8 characters
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a diction
passwd: Have exhausted maximum number of retries for service
passwd: password unchanged
muhammad@f219340-virtual-machine:~/Desktop$
```

"df" command shows the disk space usage.

```
muhammad@f219340-virtual-machine:~/Desktop$ df
Filesystem
              1K-blocks
                             Used Available Use% Mounted on
tmpfs
                  396352
                             1964
                                     394388
                                             1% /run
                                    6310152 67% /
/dev/sda3
               19946096 12597404
                 1981760
                                             0% /dev/shm
tmpfs
                               0
                                    1981760
tmpfs
                    5120
                                4
                                      5116
                                              1% /run/lock
/dev/sda2
                  524252
                                              2% /boot/efi
                             6220
                                     518032
                                              1% /run/user/1000
tmpfs
                  396352
                              108
                                     396244
/dev/sr1
                                          0 100% /media/muhammad/Ubuntu 22.04.3
                 4919592 4919592
LTS amd64
/dev/sr0
                  159072
                           159072
                                          0 100% /media/muhammad/CDROM
muhammad@f219340-virtual-machine:~/Desktop$ mkdir file
To Change file mode and add or remove permission of a file.
muhammad@f219340-virtual-machine:~/Desktop$ mkdir file
muhammad@f219340-virtual-machine:~/Desktop$ what is chmod
Command 'what' not found, did you mean:
  command 'jhat' from deb openjdk-8-jdk-headless (8u382-ga-1~22.04.1)
  command 'chat' from deb ppp (2.4.9-1+1ubuntu3)
  command 'wcat' from deb sac (1.9b5-3build1)
  command 'wham' from deb wham-align (0.1.5-8)
  command 'phat' from deb phat-utils (1.6-2build2)
Try: sudo apt install <deb name>
muhammad@f219340-virtual-machine:~/Desktop$ chmod a+x file
muhammad@f219340-virtual-machine:~/Desktop$
"chown" command change the owner of the file.
                  muhammad@f219340-virtual-machine: ~/Desktop
muhammad@f219340-virtual-machine:~/Desktop$ ls -l file1.txt
file1.txt فروري 7 18:04 7 muhammad muhammad - 18:04
muhammad@f219340-virtual-machine:~/DesktopS
"ps" command show process and "top" command show the statistics.
                  muhammad@f219340-virtual-machine: ~/Desktop
muhammad@f219340-virtual-machine:~/Desktop$ ps
                      TIME CMD
     PID TTY
    4480 pts/0
                 00:00:00 bash
    4561 pts/0
                 00:00:00 ps
 muhammad@f219340-virtual-machine:~/Desktop$ top
```

muhammad@f219340-virtual-machine: ~/Desktop □ □ ×											
	8:23:11 up										
	<b>297</b> total,									zomble , <b>0.5</b> si, <b>0.0</b> st	
MiB Mem : <b>3870.6</b> total, <b>1562.2</b> free, <b>999.6</b> used, <b>1308.8</b> buff/cache MiB Swap: <b>2140.0</b> total, <b>2140.0</b> free, <b>0.0</b> used. <b>2592.1</b> avail Mem											
The swap. 2140.0 cocae, 2140.0 free, 0.0 asea. 2522.1 avace her											
PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+ COMMAND	
1702	muhammad	20	0	4357260	264896	134732	S	15.6	6.7	1:16.47 gnome-s+	
1882	muhammad	20	0	315464	12096	7168	S	0.7	0.3	0:04.51 ibus-da+	
16	root	20	0	0	0	0	Ι	0.3	0.0	0:01.78 rcu_pre+	
234	root	20	0	0	0	0	Ι	0.3	0.0	0:01.09 kworker+	
556	systemd+	20	0	14828	6784	6016	S	0.3	0.2	0:04.31 systemd+	
580	root	20	0	317720	9216	7680	S	0.3	0.2	0:06.31 vmtoolsd	П
778	root	20	0	0	0	0	Ι	0.3	0.0	0:01.94 kworker+	4
1564	muhammad	20	0	14300	10240	4096	S	0.3	0.3	0:01.80 dbus-da+	4
1956	muhammad	20	0	348172	29392	18436	S	0.3	0.7	0:03.21 ibus-ex+	4
1969	muhammad	20	0	142992	39816	29348	S	0.3	1.0	0:05.60 vmtoolsd	
2123	muhammad	20	0	624164	14208	11776	S	0.3	0.4	0:00.78 xdg-des+	
2386	muhammad	20	0	493852	29432	21624	S	0.3	0.7	0:18.07 update-+	
4462	muhammad	20	0	554876	52636	40552	S	0.3	1.3	0:02.02 gnome-t+	
4562	muhammad	20	0	13564	4352	3456	R	0.3	0.1	0:00.21 top	
1	root	20	0	166680	11580	8252	S	0.0	0.3	0:29.06 systemd	
2	root	20	0	0	0	0	S	0.0	0.0	0:00.04 kthreadd	
3	root	0	-20	0	0	0	Ι	0.0	0.0	0:00.00 rcu_gp	l

