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Program BSCS(sem 5)

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Subject Operating system

(Lab 7)

Task 1:

```
student@student-virtual-machine:~$ pico file1.txt
student@student-virtual-machine:~$ cat < file1.txt > file2.txt
student@student-virtual-machine:~$ cat file2.txt
ayesha
momna
salma
amna
student@student-virtual-machine:~$
```

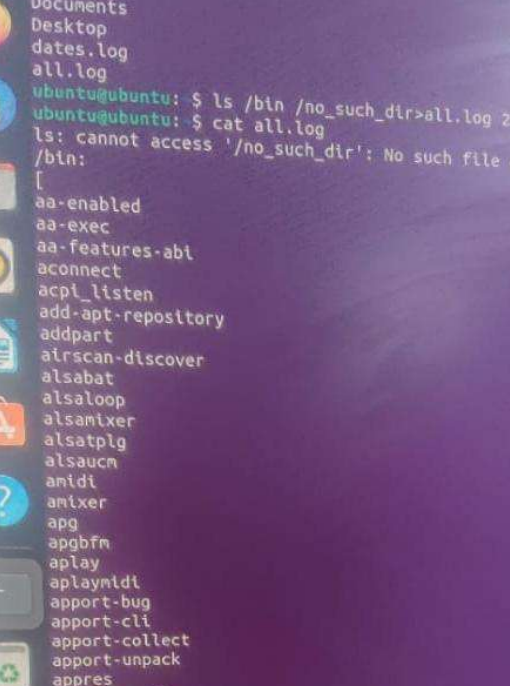
Task 2:

```
student@student-virtual-machine:~$ date
ت 29 ستمبر 2025 PKT 14:31:05
student@student-virtual-machine:~$ date >> dates.log
student@student-virtual-machine:~$ cat dates.log
ت 29 ستمبر 2025 PKT 14:26:09
ت 29 ستمبر 2025 PKT 14:31:24
student@student-virtual-machine:~$
```


Task 3:

```
student@student-virtual-machine:~$ pico existFile.txt
student@student-virtual-machine:~$ echo hello existFile.txt
hello existFile.txt
student@student-virtual-machine:~$ ls existFile.txt nofile.txt > ok.txt 2 > err.txt
ls: cannot access 'nofile.txt': No such file or directory
ls: cannot access '2': No such file or directory
student@student-virtual-machine:~$ cat ok.txt
```

Task 4:



A terminal window on a Linux system. The left sidebar shows various application icons. The terminal text is as follows:

```
err.txt
Downloads
Documents
Desktop
dates.log
all.log
ubuntu@ubuntu: $ ls /bin /no_such_dir>all.log 2>&1
ubuntu@ubuntu: $ cat all.log
ls: cannot access '/no_such_dir': No such file or directory
[
aa-enabled
aa-exec
aa-features-abi
aconnect
acpi_listen
add-apt-repository
addpart
airscan-discover
alsabat
alsaloop
alsamixer
alsatplg
alsaucm
amidi
amixer
apg
apgbfm
aplay
aplaymidi
apport-bug
apport-cli
apport-collect
apport-unpack
appres
appstreamcli
apropos
apt
apt-add-repository
apt-cache
apt-cdrom
apt-config
aptdcon
apt-extracttemplates
apt-ftparchive
```

Task 5:

```
student@student-virtual-machine:~$ pico input.txt
student@student-virtual-machine:~$ cat input.txt
apples
cats
grapes
flowers
banana
student@student-virtual-machine:~$ cat input.txt | sort | unique > unique.txt
Command 'unique' not found, but can be installed with:
sudo apt install john
student@student-virtual-machine:~$ cat input.txt | sort | uniq > unique.txt
student@student-virtual-machine:~$ cat unique.txt
apples
banana
cats
flowers
grapes
student@student-virtual-machine:~$
```


Task 6:

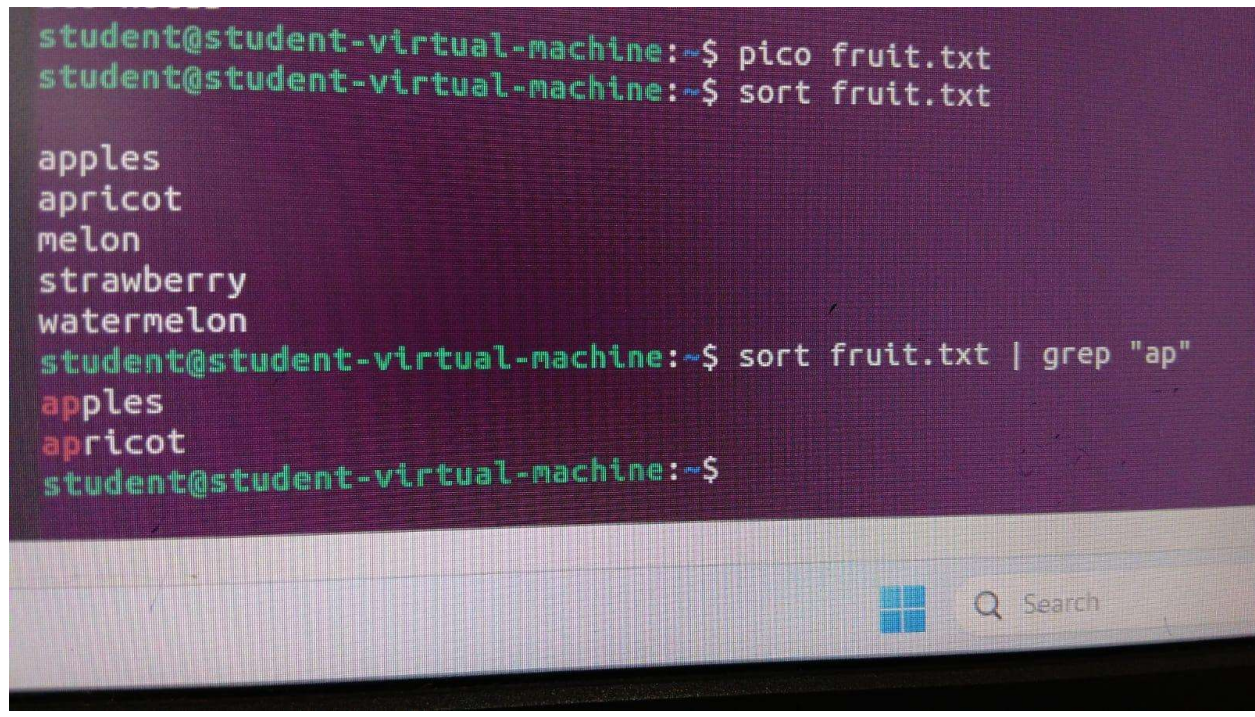
```
student@student-virtual-machine:~$ pico filename1
student@student-virtual-machine:~$ cat filename1 >new
student@student-virtual-machine:~$ who > new
student@student-virtual-machine:~$ ls | sort -r
while.sh
whileloop.sh
Videos
unique.txt
Templates
task5.c
task5
task4.c
task4
task3.c
task3
task2.c
task2
task1lab6.c
task1lab6
task1.c
task1
sortlabNumeric
sobia
snap
SElab4
SE7
SE5.txt.save
SE5.txt
SE51.txt
SE51
SE5
SE1.txt
repot1
quiz1
Public
Pictures
ok.txt
new
nestedloop.sh
Music
labSort.save
labSort
labsort
input.txt
forloop.sh.save
forloop.sh
forloop.cpp
```

```
BOOKS
ato-notes
student@student-virtual-machine:~$ ls | sort -r >>new
student@student-virtual-machine:~$ cat new
student tty2          2025-09-29 14:04 (tty2)
while.sh
whileloop.sh
Videos
unique.txt
Templates
task5.c
task5
task4.c
task4
task3.c
task3
task2.c
task2
task1lab6.c
task1lab6
task1.c
task1
sortlabNumeric
sobia
snap
SElab4
SE7
SE5.txt.save
SE5.txt
SE51.txt
SE51
SE5
SE1.txt
repot1
quiz1
Public
Pictures
ok.txt
new
nestedloop.sh
Music
labSort.save
labSort
labsort
input.txt
forloop.sh.save
forloop.sh
```

Task 7:

```
student@student-virtual-machine:~$ pico fruit.txt
student@student-virtual-machine:~$ sort fruit.txt

apples
apricot
melon
strawberry
watermelon
student@student-virtual-machine:~$ sort fruit.txt | grep "ap"
apples
apricot
student@student-virtual-machine:~$
```

A photograph of a computer screen showing a terminal window. The terminal has a dark purple background with green text for prompts and red text for file names. The commands executed are 'pico fruit.txt' and 'sort fruit.txt', followed by 'sort fruit.txt | grep "ap"'. The output of the sort command lists five fruits: apples, apricot, melon, strawberry, and watermelon. The output of the grep command lists only 'apples' and 'apricot'. Below the terminal window, a portion of the Windows taskbar is visible, showing the Start button and a search bar with the word 'Search'.