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Subject: Operating System(Lab)

Lab No: 07

Riphah International University of Islamabad

Task 1:

```
fata@fata-virtual-machine:~$ cat > file1.txt
Hello world
Good MORning
Bless you!
fata@fata-virtual-machine:~$ cat > file2.txt
fata@fata-virtual-machine:~$ cat <file1.txt > file2.txt
fata@fata-virtual-machine:~$ cat file2.txt
Hello world
Good MORning
Bless you!
```

Task 2:

```
fata@fata-virtual-machine:~$ cat > date.log
fata@fata-virtual-machine:~$ date >> date.log
fata@fata-virtual-machine:~$ cat date.log
14:35:21 و 29 ستمبر 2025 PKT
fata@fata-virtual-machine:~$
```

Task 3:

```
fata@fata-virtual-machine:~$ cat > ok.txt cat 2> err.txt
fata@fata-virtual-machine:~$ cat ok.txt
fata@fata-virtual-machine:~$ cat err.txt
cat: cat: No such file or directory
fata@fata-virtual-machine:~$
```

Task 4:

```
fata@fata-virtual-machine:~$ ls /bin > all.log
fata@fata-virtual-machine:~$ ls /no_such_dir 2>> all.log
fata@fata-virtual-machine:~$ cat all.log
[
aa-enabled
aa-exec
aa-features-abi
aconect
acpidbg
acpi_listen
add-apt-repository
addpart
addr2line
airscan-discover
alsabat
alsaloop
alsamixer
alsatplg
alsaucm
amidi
```

```
zdump
zegrep
zenity
zfgrep
zforce
zgrep
zip
zipcloak
zipdetails
zipgrep
zipinfo
zipnote
zipsplit
zjsdecode
zless
zmore
znew
zstd
zstdcat
zstdgrep
zstdless
zstdmt
ls: cannot access '/no_such_dir': No such file or directory
fata@fata-virtual-machine:~$
```

Task 5:

```
fata@fata-virtual-machine:~$ cat > input.txt
AoA
Good morning
Best Of Luck
6
9
2
fata@fata-virtual-machine:~$ cat input.txt
AoA
Good morning
Best Of Luck
6
9
2
fata@fata-virtual-machine:~$ cat input.txt | cat > unique.txt
fata@fata-virtual-machine:~$ cat unique.txt
AoA
Good morning
Best Of Luck
6
9
2
fata@fata-virtual-machine:~$ sort input.txt | cat > unique.txt
fata@fata-virtual-machine:~$ cat unique.txt
2
6
9
AoA
Best Of Luck
Good morning
fata@fata-virtual-machine:~$
```

Task 6:

```
[1]~$ stopped
fata@fata-virtual-machine:~$ cat input.txt > new
fata@fata-virtual-machine:~$ cat new
AoA
Good morning
Best Of Luck
6
9
2
fata@fata-virtual-machine:~$
```

```
fata@fata-virtual-machine:~$ who >new
fata@fata-virtual-machine:~$ cat new
fata      tty2      2025-09-29 13:08 (tty2)
fata@fata-virtual-machine:~$
```

```
fata@fata-virtual-machine:~$ ls | sort -r
Videos
unique.txt
Templates
snap
Public
Pictures
ok.txt
new
Music
input.txt
file3
file2.txt
file1.txt
fil2.txt
err.txt
Downloads
Documents
Desktop
dates.log
date.log
all.log
```

```
fata@fata-virtual-machine:~$ ls | sort -r >> new
```

```
fata@fata-virtual-machine:~$ cat new
fata      tty2      2025-09-29 13:08 (tty2)
Videos
unique.txt
Templates
snap
Public
Pictures
ok.txt
new
Music
input.txt
file3
file2.txt
file1.txt
fil2.txt
err.txt
Downloads
Documents
Desktop
dates.log
date.log
all.log
```

Task 7:

```
student@student-virtual-machine:~$ cat > Fruits.txt
Papaya
Apple
Sugar Apple
Apricot
Grapes
Mango
Pineapple
student@student-virtual-machine:~$ cat < Fruits.txt | sort | grep "ap"
Grapes
Papaya
Pineapple
student@student-virtual-machine:~$ cat > Fruits.txt
papaya
apple
sugar apple
apricot
grapes
mango
pineapple
student@student-virtual-machine:~$ cat < Fruits.txt | sort | grep "ap"
apple
apricot
grapes
papaya
pineapple
sugar apple
student@student-virtual-machine:~$ cat < Fruits.txt | sort | grep "ap" > filter.txt
student@student-virtual-machine:~$ cat filter.txt
apple
apricot
grapes
papaya
pineapple
sugar apple
student@student-virtual-machine:~$
```