



Operating System

Submitted By: Fatima Zahra

Sap Id: 55551

Lab: 05

Submitted To: Ma'am Ayesha Akram

**Riphah International University of
Islamabad**

Task 1:

```
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

fata@fata-virtual-machine:~$ uname -r
6.8.0-78-generic
fata@fata-virtual-machine:~$ uname
Linux
fata@fata-virtual-machine:~$ uname -m
x86_64
fata@fata-virtual-machine:~$ uname -p
x86_64
fata@fata-virtual-machine:~$ uname -l
uname: invalid option -- 'l'
Try 'uname --help' for more information.
fata@fata-virtual-machine:~$ uname -o
GNU/Linux
fata@fata-virtual-machine:~$ uname -a
Linux fata-virtual-machine 6.8.0-78-generic #78-22.04.1-Ubuntu SMP PREEMPT_DYNAMIC Wed Aug 13 14:32:06 UTC 2 x86_64 x86_64 x86_64 GN
U/Linux
fata@fata-virtual-machine:~$ uname -v
#78-22.04.1-Ubuntu SMP PREEMPT_DYNAMIC Wed Aug 13 14:32:06 UTC 2
fata@fata-virtual-machine:~$ uname -n
fata-virtual-machine
```

- n print the network node hostname
- r print the kernel release
- v print the kernel version
- m print the machine hardware name
- p print the processor type or “unknown”
- i print the hardware platform or “unknown”
- o print the operating system
- a print the complete information of operating system

Task 2:

```
fata@fata-virtual-machine:~$ pico LabSort
fata@fata-virtual-machine:~$ sort -r LabSort
File to be sorted
file to be sorted
End of file
class
apple on the table
99 sort files
78 apples
6 apples
3 bananas
23 years old

fata@fata-virtual-machine:~$ sort -n LabSort
apple on the table
class
End of file
file to be sorted
File to be sorted
3 bananas
6 apples
```

```
23 years old
78 apples
99 sort files
fata@fata-virtual-machine:~$ sort -k LabSort
sort: invalid number at field start: invalid count at start of 'LabSort'
fata@fata-virtual-machine:~$ sort -n LabSort.txt
sort: cannot read: LabSort.txt: No such file or directory
fata@fata-virtual-machine:~$ sort -b LabSort
```

```
23 years old
3 bananas
6 apples
78 apples
99 sort files
apple on the table
class
End of file
fie to be sorted
File to be sorted
fata@fata-virtual-machine:~$ sort -f LabSort
```

```
23 years old
3 bananas
6 apples
78 apples
99 sort files
apple on the table
class
End of file
```

```
End of file
fie to be sorted
File to be sorted
fata@fata-virtual-machine:~$ sort -k2 LabSort
```

```
class
6 apples
78 apples
3 bananas
End of file
apple on the table
99 sort files
fie to be sorted
File to be sorted
23 years old
```

```
fata@fata-virtual-machine:~$ sort -k2,2 LabSort
```

```
class
6 apples
78 apples
3 bananas
End of file
apple on the table
99 sort files
file to be sorted
File to be sorted
23 years old
```

```
fata@fata-virtual-machine:~$ sort -k2 LabSort
```

```
class
6 apples
78 apples
3 bananas
End of file
apple on the table
99 sort files
file to be sorted
File to be sorted
23 years old
```

```
fata@fata-virtual-machine:~$ sort -k3 LabSort
```

```
3 bananas
6 apples
class
```

```
class
78 apples
file to be sorted
File to be sorted
End of file
99 sort files
23 years old
apple on the table
```

Task 3:

```
fata@fata-virtual-machine:~$ sort -k2 SortLabNumeric
```

```
14 Hacking stories
6 Network security
12 ONline Classes
13 People of Pakistan
7 Tom and Jerry
```

```
fata@fata-virtual-machine:~$ sort -k2,2 SortLabNumeric
```

```
14 Hacking stories
6 Network security
12 ONline Classes
13 People of Pakistan
7 Tom and Jerry
```

```
fata@fata-virtual-machine:~$ sort -k1,2 SortLabNumeric
```

```
12 ONline Classes
13 People of Pakistan
14 Hacking stories
6 Network security
7 Tom and Jerry
```

```
fata@fata-virtual-machine:~$ sort -k1,1n SortLabNumeric
```

```
6 Network security
7 Tom and Jerry
12 ONline Classes
13 People of Pakistan
```

```
fata@fata-virtual-machine:~$ sort -k1,1n SortLabNumeric
```

```
6 Network security
7 Tom and Jerry
12 Online Classes
13 People of Pakistan
14 Hacking stories
```

```
fata@fata-virtual-machine:~$ sort -n SortLabNumeric
```

```
6 Network security
7 Tom and Jerry
12 Online Classes
13 People of Pakistan
14 Hacking stories
```

```
fata@fata-virtual-machine:~$ sort -k2,2 Sort LabNumeric
sort: cannot read: Sort: No such file or directory
```

```
fata@fata-virtual-machine:~$ sort -k2,2 SortLabNumeric
```

```
14 Hacking stories
6 Network security
12 Online Classes
13 People of Pakistan
7 Tom and Jerry
```

```
fata@fata-virtual-machine:~$ sort -n SortLabNumeric
```

```
6 Network security
7 Tom and Jerry
12 Online Classes
13 People of Pakistan
14 Hacking stories
```

```
fata@fata-virtual-machine:~$
```