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OS Lab 5

Task 1:

Run all switches with **uname** command.

And define in one line about these commands according to your understanding.

Solution:

Uname –r: gives the kernel information

Uname -m: hardware name of the machine

Uname –p: gives information about the type of processor

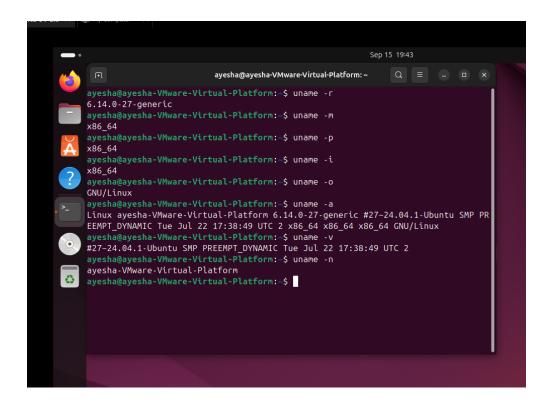
Uname –i: gives information about the hardware

Uanme –o: prints the details of the operating system

Uname –a: gives the full detail of the operating system

Uname –v: detail of the version of kernel

Uname −**n:** prints the hostname of the machine



Task 2: Create new file named labSort and insert following text

End of file

6 apples

file to be sorted

apple on the table

23 years old

File To be Sorted

78 apples

Class

3 bananas

99 sort files

Solution:

Creating file: labSort

```
ayesha@ayesha-VMware-Virtual-Platform:~$ pico labSort
ayesha@ayesha-VMware-Virtual-Platform:~$ cat labSort
End of file
6 apples
file to be sorted
apple on the table
23 years old
File To be sorted
78 apples
Class
3 bananas
99 sort files
ayesha@ayesha-VMware-Virtual-Platform:~$
```

Sorting using simple "sort":

```
ayesha@ayesha-VMware-Virtual-Platform:~$ sort labSort

23 years old
3 bananas
6 apples
78 apples
99 sort files
apple on the table
Class
End of file
file to be sorted
File To be sorted
ayesha@ayesha-VMware-Virtual-Platform:~$
```

Sorting using "sort -r":

```
ayesha@ayesha-VMware-Virtual-Platform:~$ 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
ayesha@ayesha-VMware-Virtual-Platform:~$
```

Sorting using "sort –n":

```
ayesha@ayesha-VMware-Virtual-Platform:-$ 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
ayesha@ayesha-VMware-Virtual-Platform:-$
```

Sorting using "sort –f":

```
ayesha@ayesha-VMware-Virtual-Platform:~$ sort -f labSort
23 years old
3 bananas
6 apples
78 apples
99 sort files
apple on the table
Class
End of file
File To be sorted
file to be sorted
ayesha@ayesha-VMware-Virtual-Platform:~$
```

Sorting using "sort -k1":

```
ayesha@ayesha-VMware-Virtual-Platform:~$ sort -k1 labSort
23 years old
3 bananas
6 apples
78 apples
99 sort files
apple on the table
Class
End of file
file to be sorted
File To be sorted
```

Sorting using "sort –k2":

```
ayesha@ayesha-VMware-Virtual-Platform:~$ 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
```

Task 3:

Create another file with name **SortLabNumeric** two columns in it.

- 12 Online classes
- 6 Network security
- 14 Hacking stories
- 7 Tom and jerry
- 13 People of Pakistan

One column contains numeric values while other contain text. Now perform sorting on both columns. Also perform **-n** switch on both columns again and observe the pattern.

Solution:

Creating file and adding text:

```
ayesha@ayesha-VMware-Virtual-Platform:~$ pico SortLabNumeric
ayesha@ayesha-VMware-Virtual-Platform:~$ cat SortLabNumeric

12 Online classes
6 Network security
14 Hacking stories
7 Tom and jerry
13 People of Pakistan
ayesha@ayesha-VMware-Virtual-Platform:~$
```

Sorting 2nd column: (sorts the 2nd column alphabetically)

```
ayesha@ayesha-VMware-Virtual-Platform:~$ sort -k2 SortLabNumeric
14 Hacking stories
6 Network security
12 Online classes
13 People of Pakistan
7 Tom and jerry
ayesha@ayesha-VMware-Virtual-Platform:~$
```

Sorting 1st column: (according to the asci)

```
ayesha@ayesha-VMware-Virtual-Platform:~$ sort -k1,1 SortLabNumeric
12 Online classes
13 People of Pakistan
14 Hacking stories
6 Network security
7 Tom and jerry
```

Sorting using –n:

(Arranges the 1st column in ascending order)

```
ayesha@ayesha-VMware-Virtual-Platform:~$ sort -n SortLabNumeric
6 Network security
7 Tom and jerry
12 Online classes
13 People of Pakistan
14 Hacking stories
```