Commands:

1. **Whoami:** Displays the current username.

```
sh-5.0# whoami
root
```

2. **Hostname:** Displays the system's host name.

```
sh-5.0# hostname
localhost
```

3. **Echo "Hello, world":** Print characters to screen.

```
sh-5.0# echo "Hello, world"
Hello, world
```

4. **Echo $HOME:** Displays the path of current user's home directory.

```
sh-5.0# echo $HOME
/
```

5. **Echo my login is $(whoami):** replaces $(xx) with program output.

```
sh-5.0# echo my login is $(whoami)
my login is root
```

6. **Date**: prints current date/time.

```
sh-5.0# date
Thu Jan  1 06:24:08 UTC 1970
```

7. **Cal**: prints this month's calender.

```
sh-5.0# cal
    January 1970
Su Mo Tu We Th Fr Sa
             1  2  3
 4  5  6  7  8  9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31
```

8. **Shazam**: bad command.

```
sh-5.0# shazam
sh: shazam: command not found
```

Selected text processing utilities

1. **awk:** Used for pattern scanning and performing action based on it.

```
labex:handson/ $ cat aw.txt
Every Manager has different resposibilities.
Each employee should respect his decision.
A Manager should be responsible for each action they take.
labex:handson/ $ awk '/Manager/{print}' aw.txt
Every Manager has different resposibilities.
A Manager should be responsible for each action they take.
```

2. **cat:** To display files

```
ubuntu $ cat details.txt
1. Ranga Nandyal 7396660625
2. Pavan Guntur 73976524
3. Kalyan Kadapa  7397860625
4. Perin  Godavari  739765264
5. Charan Kurnool 7382707456
ubuntu $ echo -e "1. Ranga Nandyal 7396660625">>details.txt
```

3. **cut:** To extract selected fields by position of each line of a file

```
sh-5.0# cut -b 1-3,5-7 test.txt
Helo W
Andra
Bihr
Assm
```

4. **diff:** To compare two files

```
sh-5.0# diff test.txt test2.txt
1d0
< Hello World
3,4c2,3
< Bihar
< Assam
---
> Hyderabad
> Nandyal
\ No newline at end of file
```

5. **grep:** Searches and gives number of lines matches with the pattern

```
sh-5.0# grep -c "A" test.txt
2
```

6. **head:** To display the starting of files

```
labex:handson/ $ head -n 4 pages.txt
The standard Lorem Ipsum passage, used since the 1500s
"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempo
incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nos
ud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis
te irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugia
nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa
i officia deserunt mollit anim id est laborum."
```

7. **tail:** To display ending text of file

```
labex:handson/ $ tail -n 2 pages.txt
1914 translation by H. Rackham
"On the other hand, we denounce with righteous indignation and dislike men w
re so beguiled and demoralized by the charms of pleasure of the moment, so b
ed by desire, that they cannot foresee the pain and trouble that are bound t
sue; and equal blame belongs to those who fail in their duty through weaknes
 will, which is the same as saying through shrinking from toil and pain. The
ases are perfectly simple and easy to distinguish. In a free hour, when our
r of choice is untrammelled and when nothing prevents our being able to do w
we like best, every pleasure is to be welcomed and every pain avoided. But i
rtain circumstances and owing to the claims of duty or the obligations of bu
ss it will frequently occur that pleasures have to be repudiated and annoyan
accepted. The wise man therefore always holds in these matters to this princ
 of selection: he rejects pleasures to secure other greater pleasures, or el
e endures pains to avoid worse pains."
```

8. **sed:** To search and replace text in a file.

```
labex:handson/ $ "Nandyal is a town.\nNandyal is near Kurnool">rep.txt
zsh: command not found: Nandyal is a town.\nNandyal is near Kurnool
labex:handson/ $ echo "Nandyal is a town.\nNandyal is near Kurnool">rep.txt
labex:handson/ $ sed "s/Nandyal/Mahanandi/" rep.txt
Mahanandi is a town.
Mahanandi is near Kurnool
```

9. **less:** To display the large file txt in form of pages.

```
labex:handson/ $ less pages.txt

rtain circumstances and owing to the claims of duty or the obligations of bus
ss it will frequently occur that pleasures have to be repudiated and annoyance
accepted. The wise man therefore always holds in these matters to this princi
 of selection: he rejects pleasures to secure other greater pleasures, or else
e endures pains to avoid worse pains."
(END)
```

Creating a file: touch command

```
ubuntu $ touch details.txt
```

Adding text to the file:

```
ubuntu $ cat details.txt
1. Ranga Nandyal 7396660625
2. Pavan Guntur 73976524
3. Kalyan Kadapa  7397860625
4. Perin  Godavari  739765264
5. Charan Kurnool 7382707456
ubuntu $ echo -e "1. Ranga Nandyal 7396660625">>details.txt
```

10. **Wc:** To count number of lines, words and characters in a file

```
labex:handson/ $ wc -l  pages.txt
14 pages.txt
```

```
labex:handson/ $ wc -w pages.txt
704 pages.txt
labex:handson/ $ wc --chars pages.txt
4414 pages.txt
```

11. **split:** Used to split large files into different files

```
labex:handson/ $ split -n 2 pages.txt
labex:handson/ $ ls
details.txt  pages.txt  rep.txt  xaa  xab
```

12. **sort :** Used to sort the text in files

```
labex:handson/ $ sort aw.txt
A Manager should be responsible for each action they take.
Each employee should respect his decision.
Every Manager has different resposibilities.
```

13. **tr:** To translate the text according to required pattern

```
labex:handson/ $ cat aw.txt | tr [a-z] [A-Z]
EVERY MANAGER HAS DIFFERENT RESPOSIBILITIES.
EACH EMPLOYEE SHOULD RESPECT HIS DECISION.
```

14. **uniq:** To remove duplicate and display unique in file

```
labex:handson/ $ cat dup.txt
Hi
Hi
Hello
labex:handson/ $ uniq dup.txt
Hi
Hello
```

15. **rm:** To remove files from the directory

```
labex:project/ $ cat details.txt
1. Ranga Nandyal 7396660625
2. Pavan Guntur 73837902784
labex:project/ $ rm details.txt
labex:project/ $ cat details.txt
cat: details.txt: No such file or directory
```

16. **cp:** To copy one file contents to other.

```
labex:project/ $ touch studentdetails.txt
labex:project/ $ cp details.txt studentdetails.txt
labex:project/ $ cat studentdetails.txt
1. Ranga Nandyal 7396660625
2. Pavan Guntur 73837902784
```

17. **mv:** To movie files or directories from one location to specified location.

```
labex:project/ $ ls
details.txt  handson  studentdetails.txt
labex:project/ $ mv details.txt handson
labex:project/ $ ls
handson  studentdetails.txt
labex:project/ $ cd handson
labex:handson/ $ ls
details.txt
```