

Operating Systems Lab

Experiment 01: Basic Linux Commands

1. **ls** – It lists the contents of the directory.

```
localhost:~# ls
bench.py    hello.c    hello.js   readme.txt
```

2. **cat** – It displays the contents of the files

```
localhost:~# cat hello.c
#include <stdio.h>
int main(void)
{
    printf("hello world\n");
    return 0;
}
```

3. **pwd** – It prints the current working directory

```
localhost:~# pwd
/root
```

4. **whoami** – It displays the current user name

```
localhost:~# whoami
root
```

5. **clear** – It clears the terminal screen.

```
localhost:~#
```

6. **mkdir** – It creates a new directory

```
localhost:~# mkdir AKSHAT
localhost:~# ls
AKSHAT      bench.py    hello.c      hello.js     readme.txt
localhost:~#
```

7. **cd** – It changes the current working directory

```
localhost:~# cd AKSHAT
localhost:~/AKSHAT# pwd
/root/AKSHAT
localhost:~/AKSHAT#
```

8. **cd ..** – It moves back to the parent directory.

```
localhost:~/AKSHAT# cd ..
localhost:~# pwd
/root
```

9. **rmdir** – It deletes the directory.

```
localhost:~# rmdir AKSHAT
localhost:~# ls
bench.py    hello.c      hello.js     readme.txt
localhost:~#
```

10. **cat > hello.txt** – It allows us to create a file named hello.txt and allows to write content in it. Press **Ctrl + D** to save and exit.

```
localhost:~# cat > hello.txt
This is my 1st OS lab practical.
localhost:~# ls
bench.py    hello.c      hello.js     hello.txt    readme.txt
localhost:~# cat hello.txt
This is my 1st OS lab practical.
```

11. `cat >> hello.txt` – It appends the content to the hello.txt file.

```
localhost:~# cat >> hello.txt
OS stands for Operating Systems...
localhost:~# ls
bench.py  hello.c  hello.js  hello.txt  readme.txt
localhost:~# cat hello.txt
This is my 1st OS lab practical.
OS stands for Operating Systems...
```

12. `cp hello.txt bye.txt` – It copies hello.txt file to a new file named bye.txt. Here, hello.txt acts as source file and bye.txt as a destination file.

```
localhost:~# cp hello.txt bye.txt
localhost:~# ls
bench.py  bye.txt  hello.c  hello.js  hello.txt  readme.txt
localhost:~# cat bye.txt
This is my 1st OS lab practical.
OS stands for Operating Systems...
```

13. `mv bye.txt file.txt` – It renames or moves bye.txt file to file.txt file.
Here, bye.txt is source file and file.txt is destination file.

```
localhost:~# mv bye.txt file.txt
localhost:~# ls
bench.py  file.txt  hello.c  hello.js  hello.txt
localhost:~# cat file.txt
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OS stands for Operating Systems...
```

14. `rm file.txt` – It deletes the file 'file.txt'.

```
localhost:~# rm file.txt
localhost:~# ls
bench.py  hello.c  hello.js  hello.txt  readme.txt
localhost:~#
```