

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

7. cd – It changes the current working directory

```
localhost:~# cd Aatif
localhost:~/Aatif#
```

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

```
localhost:~/Aatif# cd ..
localhost:~#
```

9. rmdir – It deletes the directory.

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

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:~#
```