

Weekly Report

1. cat

Purpose: Used for displaying the content of a file. **Syntax:** `cat + [OPTION] + [file]` **Examples:**

- `cat file.txt`
- `cat file1.txt file2.txt`

2. tac

Purpose: Similar to cat but displays file content in reverse (last line first). **Syntax:** `tac [OPTION] + [FILE]` **Examples:**

- `tac file.txt`
- `tac file1.txt file2.txt`

3. head

Purpose: Outputs the first part of files. **Syntax:** `head + [OPTION] + [FILE]` **Examples:**

- `head file.txt`
- `head -5 file.txt`

4. tail

Purpose: Outputs the last part of files. **Syntax:** `tail + [OPTION] + [FILE]` **Examples:**

- `tail file.txt`
- `tail -5 file.txt`

5. cut

Purpose: Removes sections from each line of files. **Syntax:** `cut + [OPTION] + [FILE]` **Examples:**

- `cut -d':' -f1 file.txt`
- `cut -b 1-5 file.txt`

6. paste

Purpose: Merges lines of files. **Syntax:** `paste + [OPTION] + [FILE]` **Examples:**

- `paste file1.txt file2.txt`
- `paste -d ',' file1.txt file2.txt`

7. sort

Purpose: Sorts lines of text files. **Syntax:** `sort + [OPTION] + [FILE]` **Examples:**

- `sort file.txt`

- `sort -r file.txt`

8. wc

Purpose: Prints the number of lines characters and bytes in a file. **Syntax:** `wc + [OPTION] + [FILE]`

Examples:

- `wc -m file.txt`
- `wc -l file.txt`

9. tr

Purpose: Translates or deletes characters. **Syntax:** `tr + [OPTION] + SET1 + [SET2]` **Examples:**

- `cat file.txt | tr 'a-z' 'A-Z'`
- `cat file.txt | tr ';' ','`

10. diff

Purpose: Compares files line by line. **Syntax:** `diff + [OPTION] + FILES` **Examples:**

- `diff file1.txt file2.txt`
- `diff -y file1.txt + file2.txt`

11. grep

Purpose: Searches for patterns in files. **Syntax:** `grep + [OPTION] + PATTERN + [FILE]` **Examples:**

- `grep + 'love' + file.txt`
- `grep + -i + 'mangu' + file.txt`

12. awk

Purpose: used for processing and displaying text . **Syntax:** `awk + [OPTION] + [program] + [input-file]` **Examples:**

- `awk '{print $1}' file.txt`
- `awk + '/pattern/ {print $0}' + file.txt`
- `awk + -F: '{print $1, $3}' /etc/passwd`
- `awk + 'NR >1 {print}' + file.txt`
- `awk + '{print length($0)}' file.txt`

13. sed

Purpose: Stream editor for perform operations on files and standard output. **Syntax:** `sed + [OPTION] + {script} + [file]` **Examples:**

- `sed + 's/cars/automobile/' + file.txt`
- `sed + 5d + file.txt`
- `sed + '12,$d' + file.txt`
- `sed + '/**.md/d' + file.txt`

- `sed + '1,5 s/future/tomorrow/' + file.txt`