# Day 1 - Internship at Regex Software Services

## Overview

On the first day of the internship at **Regex Software Services** as a **Data Engineering Intern**, we were introduced to the basics of the **Operating System** and worked extensively with **Linux commands**. This foundational session was aimed at helping us get comfortable with the Linux environment, which is essential for many data engineering tasks.

## Linux Commands Covered

### 1. `pwd`

- **Description:** Prints the current working directory.
- **Example:** `bash pwd`

### 2. `ls`

- **Description:** Lists the contents of a directory.
- **Example:** `bash ls`

### 3. `mkdir`

- **Description:** Creates a new directory.
- **Example:** `bash mkdir myfolder`

### 4. `rmdir`

- **Description:** Removes an empty directory.
- **Example:** `bash rmdir myfolder`

### 5. `cd`

- **Description:** Changes the current directory.
- **Example:** `bash cd myfolder`

### 6. `mkdir {1..10}`

- **Description:** Creates multiple directories in a sequence.
- **Example:** `bash mkdir {1..10}`

### 7. `touch`

- **Description:** Creates a new empty file.

- **Example:** `bash touch file.txt`

## 8. `rm`

- **Description:** Removes files or directories.
- **Example:** `bash rm file.txt`

## 9. `cd ..`

- **Description:** Moves up one directory level.
- **Example:** `bash cd ..`

## 10. `rm -rvf <path>`

- **Description:** Forcefully and recursively removes a directory and its contents.
- **Example:** `bash rm -rvf myfolder`

## 11. `rm --help`

- **Description:** Displays help information for the `rm` command.
- **Example:** `bash rm --help`

## 12. `sudo apt update`

- **Description:** Updates the package list on a Debian-based system.
- **Example:** `bash sudo apt update`

## 13. `sudo apt install cmatrix`

- **Description:** Installs the `cmatrix` package.
- **Example:** `bash sudo apt install cmatrix`

## 14. `sudo apt install hollywood`

- **Description:** Installs the `hollywood` package.
- **Example:** `bash sudo apt install hollywood`

## 15. `echo`

- **Description:** Displays a line of text.
- **Example:** `bash echo "Hello, World!"`

## 16. `echo "" > filename`

- **Description:** Creates an empty file or clears an existing file.
- **Example:** `bash echo "" > file.txt`

### 17. `date`

- **Description:** Displays the current date and time.
- **Example:** `bash date`

### 18. `date > filename`

- **Description:** Redirects the current date and time output into a file.
- **Example:** `bash date > file.txt`

### 19. `cat filename`

- **Description:** Displays the contents of a file.
- **Example:** `bash cat file.txt`

### 20. `date >> filename`

- **Description:** Appends the current date and time to a file.
- **Example:** `bash date >> file.txt`

### 21. `history !<line-number>`

- **Description:** Repeats the command from the given line number in the command history.
- **Example:** `bash history !45`