System Utility Commands: date, uptime, hostname, uname, which, cal,

bc.

Certainly! Here are detailed explanations of the system utility commands you've mentioned

1. date:

- Usage: The `date` command is used to display the current date and time on the system.

- Example:

```bash
date
```

- Output Example:

```bash
Wed Dec 8 14:32:45 UTC 2023
```

2. uptime:

- Usage The `uptime` command provides information about how long the system has been running, the number of users currently logged in, and the system load averages.

- Example:

```bash
uptime
```

- Output Example:

```bash
14:32:45 up 10 days, 2:30, 3 users, load average: 0.25, 0.12, 0.09
```

last 1 min load, last 5 min load, last 15 minutes load of CPU

In this example, the system has been running for 10 days and 2 hours and 30 minutes.

3. hostname:

- Usage: The `hostname` command displays the name of the current host or sets the system's hostname.

- Example:

```bash
**hostname**
```

- **Output Example:**

```bash
my-computer
```

You can also change the hostname by command:

hostname master

but this will be temporary if you want to make it permanent then need to do changes in /etc/hosts

4. **uname**:

- Usage:The `uname` command provides information about the system. Common options include `-a` for all information and `-s` for the kernel name.

- Example:

```bash
**uname -a**
```

- Output Example:

```bash
Linux my-computer 5.4.0-89-generic #100-Ubuntu SMP Fri Sep 24 14:50:10 UTC 2021 x86_64 x86_64 x86_64 GNU/Linux
```

5. which:

- Usage:The `which` command is used to locate the full path of an executable in the user's PATH.

- Example:

```bash
**which ls**
```

- **Output Example:**

```bash
/bin/ls
```

In this example, it shows the full path of the `ls` command.

6. cal:

- Usage: The `cal` command displays a simple calendar.
- Example:

To install it: **apt-get install ncal**

```bash
cal
```

- Output Example:

```bash
   December 2023
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
```

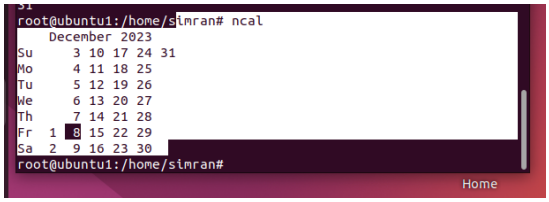
In this example, it displays the calendar for the current month.

To print all the months of this year:

cal 2023

To see calendar for particular month

cal may 2023



7. bc:

- Usage: The `bc` command is a command-line calculator that supports **arbitrary precision arithmetic.**

- Example:

```bash
echo "5 + 3" | bc
```

- **Output Example:**

```bash
8
```

In this example, it calculates the sum of 5 and 3.