**Introduction to UNIX**

**Q. What is UNIX?**

UNIX is an open source operating system. It is widely used for networking purpose. This can be used by its copyrighters or license holder.

**Q. What is Linux?**

Linux is an open source operating system which is freely available to everyone.

**Q. What is the difference between UNIX and Linux**

|  |  |
| --- | --- |
| **Linux** | **Unix** |
| 1. It is an open-source operating system which is freely available to everyone. | 1. It is an operating system which can be only used by its copyrighters. |
| 2.It has different flavors like Ubuntu, Redhat, Fedora, etc | 2. Vendors of Unix are IBM AIX, HP-UX and Sun Solaris. |
| 3. Nowadays, Linux is in great demand. Anyone can use Linux whether a home user, developer or a student. | 3. It was developed mainly for servers, workstations and mainframes. |
| 4. Linux is used everywhere from servers, PC, smart phones, tablets to mainframes and supercomputers. | 4.It is used in servers, workstations and PCs. |
| 5. Linux is freely distributed, downloaded, and distributed through magazines And priced flavors of Linux are also cheaper than Windows. | 5. Unix copyright vendors decide different costs for their respective Unix Operating systems. |

**Q. Architecture of UNIX**

**Terminology-**

1./ Root

2. /ABC- Directory

3. F1- File

F3

F4

/d6

/d5

/d4

/d3

**F1**

**/d2**

**/d1**

**/pooja**

**/**

**/….**

**/home**

**/etc**

**user**

**/DD**

**/bin**

**Flavors:**

**Linux** - Ubuntu, Redhat, Fedora etc

**UNIX** - IBM AIX, HP-Ux, Sun Solaris etc

**Basic commands**

**1. Date:**

It will display date and time.

**Syntax:** $date

**2. Cal:**

It will display current month calendar

**Syntax:** $ cal

**3. Cal year:**

It will display specific year calendar for all months

**Syntax:** $ cal year

cal 2020

**4. Cal month year:**

It will display specific year calendar for specific month

**Syntax:** $ cal month year -cal 3 2020 or cal march 2020

**5. Who**

Display current logged users in system.

**Syntax:** $who

**7. Whoami**

It will display only user name

**Syntax**: $whoami

**8. Who -all**

It will display logged user and not logged user for specific project

**Syntax**: $who all

**9. Hostname**

Display system name or host name

**Syntax:** $Hostname

**10.Hostname –i**

Display IP address

**Syntax**: $Hostname –i

**11. Whatis**

It will display command description.

**Syntax**: $whatis

Ex: $whatis cat

**12. Man (manual page)**

It will provide the complete manual related to particular command with syntax and options which to be used in Linux.

**Syntax:** $man cat

***13.wc (word count)***

*It will display no. of lines,words,characters*

***Syntax:*** *$wc*

***Options****- wc –l. wc –w, wc -c*

***14.ls(list)***

*It will display all directories and file name.*

***Syntax:*** *$ls*

***File related commands***

***Q: Tell me any 5 basic commends you’re across?***

***Q: which commands your using with your project?***