A Way Forward!!
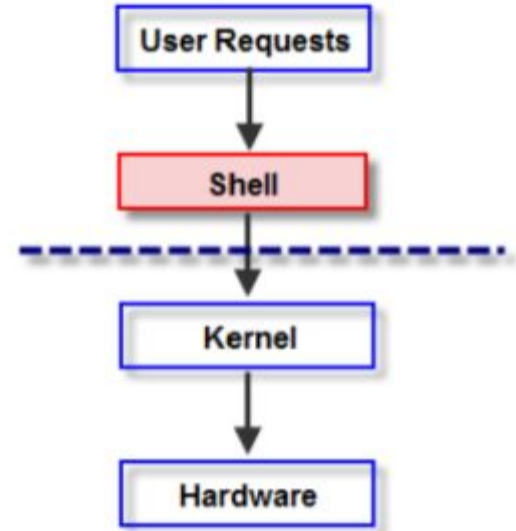
Introduction to Scripting vs Operating System
(Just a brief Idea!!
You Still have much more to explore!!)

Unix – A Basis for Many OS

- User Interacts with the Unix/Linux System.

- Read User's Input

- Parse It , Evaluate It

- Works with kernel to execute the command.

In Linux, everything is a file!

Basic Commands

➜ **General Syntax**

<Some Command> [option 1] [option 2] ...[option n]

The Basic Ones!!

The List command

ls [flags] [file]

• Lists directory content

• Flags/options: -l, -a, -s, -S, -t -R...

Tip

Explore the different combinations of flags with ls command, and see how it works.

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The Basic Ones!!

Change Directory
cd [dir]

Know your System
echo $SHELL

Creating Files
touch [flags] <file> (easiest way)
• If the file exists, timestamp modified.
• If not, the file is created.

The Basic Ones!!

mkdir [flags] <dir name>
• Creates a directory with the name <dir name>.

View + Concatenate
cat <file>
cat <file1> <file2> ...<file n>

Copy
cp [flags] <file> <destination>
• Copies the file <file> to a location <destination>.
• Use -r flag to copy an entire directory.

Tip

Try how to remove the directory already created.

How does this will go with files??(cat,

See how recursive copy works?

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And There Are Many More!

References :

http://www.tutorialspoint.com/unix/unix-useful-commands.htm

https://www.tjhsst.edu/~dhyatt/superap/unixcmd.html

And THE UNIX GOD!!

The manual command man <section> <command>

• Displays the manual page (man page) of <command>.

• Use /<keyword> to do a keyword search in a manpage

• Make man your best friend!

Tip

Explore how you can tweak things in your systems.

Permission? See for them?

Absolute vs Relative Paths

* Explore the Header Files

Explore the system calls mentioned in tutorial

- ➔ **Open, Close??**

- ➔ **Read, write?**

- ➔ **Mkdir, access?**

- ➔ **Scandir, readdir, closedir?**

How will use them in C/C++ Program??

I/O Redirection?????

Basic Commands! What else is Left!! ??

HOW TO START??

Implement Given Commands using system calls!

Tip

Explore Given Commands - Wc, Tr, Split+Tac

How they work on terminal, What all they are used for.

TR?

```
$ tr [OPTION] [SET1] [SET2]

< [Input File] > [output file]



< - Input Redirection

> - Output Redirection
```

Handle Properly!!

Command Line Arguments??

Input Output File

If Input or OUTPUT Not Given??

StandARD input???

SCALABLE??

LARGE FILES!!!

QUESTIONS??

Thank You!!