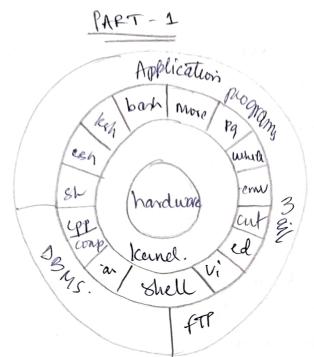
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Unix Architecture is divided into 2 componente:

(i) Kernel (ii) Shell.

Keenel - Interacts with the 19th machine's hardware Shell - Interact with the users and kernel.

- · Unix is a layered operating system. The innermost layer is the hardware that provides the services for the O.S.
- · There were programs don't need to know how to interact with the kernel to provide service.
- · They interact through standard system calls, which is provided by the Kernel.
- "Unix is a multiuser, multitasking o.s.

Keinel does the following jobse

(i) System memory in managed by it.

(ii) schedules processes.

(iii) Decides priorities.

Shell:

- · Shell is a command interpreter, it takes each command by proce passes it to the O.S kernel.
- · Wherever me login to the unix system you are placed in the shell program.
- · Several shells are usually available on any UNIX System.

· Commonaly und shells are:

Standard Shell

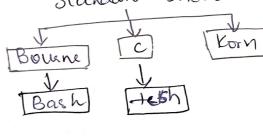
(i) Bourne shell

(ii) Korn shell

(iii) c shell

(iv) Bash

(x) Ic shell.



Application programs: Contains user written applications

PART; B

20). To start recording of linux terminal, type Script and add the log filename:

Example:

~\$ cal

October 2020
SU Mo TU We Th fr Sa

4 5 6 7 8 9 10

11 12 13 14 15 16 17

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PART: B

2a) To start recording of linex terninal, type script and add the log filenam.

Examples: ~ & Script script. log # start script

~ & date

Thu Oct 22 09:19:01 PDT 2020

~ \$ who User thy7 2020-03-18 19:08 (:0)

~ & whoani

~ decho "using script"
using script

~ \$ exit # to stop the «cript command. exit Script done, file is script. log.

OUTPUT: NS vii script. log #display
date^M
Thu Oct 22 09:19:01 PDT 2020 enho^M
User thyr 2020-03-18 19:08(10) capp
who amin
user can echo^M
using script "exp exit^M

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To.	append the log file [use -a]. ~ Script - a swipt. log #append. Script started
	~ & pwd I home user
	~ \$ vi script. log dale^M
	Thu Oct 22 09:19:01 PDT 2020: who M USER tty7 2020-03-18 (:0) Who ani M
	using skipt exit "M exit pud "M" Thome [wer

26) (i) Copy the entire directory by name Bone Jocated in usr [temp to current directory.

-> [CP -r /user/temp/Bms.]. -> (.) operator for current directory

(ii) Rename all the files

[my -i Chapor unitor

(ii) <u>Pename</u> all the files

| my - i Chapor unitor
| mv - i Chapor unitor
| mv - i Chapor unit 03
| mv - i Chapor unit 03
| (iii) Remone the files in directory / home | kumar | prograf **
| rm - r home | kumar | prograf **

(iv) -> [comm file:txtfile2:txt]

(v) -> lod -b file1.txt.

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20) (i) Creating an Archive dept. tor for 3 files.

-> tou -cvf dept. ton file1. html file2. html file3.txt

(ii) Extracting the files from the Archive.

-> tar - nuf dept. tor

(iii) (acate an compressed file from the . Archive dept. tor.

- gzip dept. tar

PART: C

3a). echo "Enter 3 subject marks"

suad m1 m2 m3

sum = 'expr \$m1 + \$m2 + \$m3'

avg = 'expr \$sum | 3'

if [\$m1 - lt 50] 44 [\$m2 - lt 50] ff [\$m3-11 50]

then "Fail"

elifa [savg - gt 90]

echo "Distinetion"

elif [Javg - gt 60] then echo "first class" else echo " Second clay "



46),(i) #! (bin bash

echo "Enter 2 numbers:"

head a b

echo "Enter choice:

echo "1. Addition

echo "2. Subtraction"

echo "3. Multiplication

echo "4. Rivisión" echo "5. Modulus

read ch

Case sch in

i) res = echo \$a+\$b/bc'

2) rees : echo \$ a - \$ 6 1 bc

3) res = 'echo &a * \$6/6c'

4) res = 'echo "scale:2; da/db" lbc'

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5) res : 'echo \$a! \$b | bc'

i;

*) echo "Enter a valid choice"

();

esac

echo "Rerult: \$res"

(ii) echo "Frita any charathi."

read ch

case Ich in

"a") echo "Its a nowel";;

"e") echo "Its a nowel";;

"i") echo "Its a nowel";;

"o";) echo "Its a nowel";;

"u") echo "Its a nowel";;

"u") echo "Its a nowel";;

esac

(Lga)

Muya