

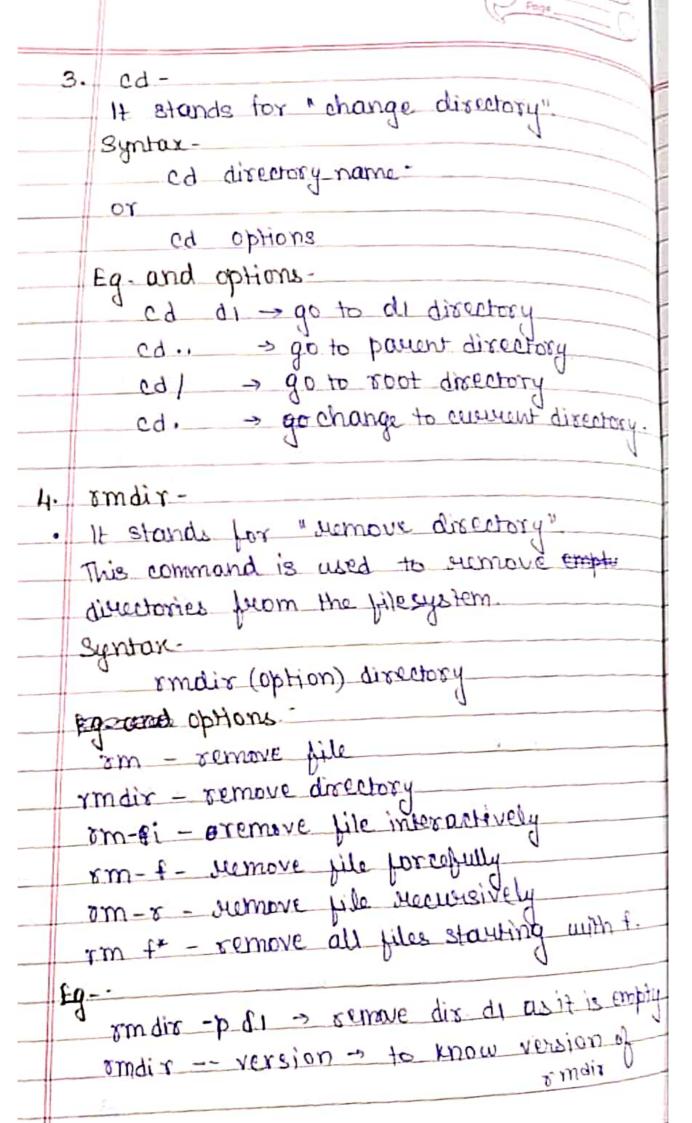


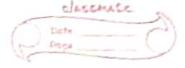






ME: Hit	ika Tripo	STD.:SEC.:ROLL NO.:SUB.:
s. No.	Date	Title Page No. Teacher's Sign / Remarks
1.		CLNIX COMMANDS.
2.		menu priver presquam to perform
		various anithmitic operations (using)
3.		wern griven peodram to bestoen
		various anithmetic op- (using case)
4.		max- + min. of 3 numbers
5.		Number is even or odd.
6.		Number is positive or negative.
4.		Table of a number given
g.		factorial of a number
9.		De juie number
.10.		Palindrome number
11-		Houstoold unupex
12-		Generate Fibonacii series.
13.		sorting a set of numbers.
14.		summation of natural nos.
15.		generate & sum of all prime nos.
		between two given numbers
16.		Pattern.
17-		Pattern.
18-		Pattern
19.		Binary to decimal conversion.
20.		Pattern
۹۱.		Pattern.
QQ .		Pattern.
74 161		





5.	date-
	This command is used to display the
	date and account time of system
	Syntox-
	date (option) (+ format)
	Eg
	date = display date 4 time in use termot.
Б.	Time-
	This command is used to display time of
	the system.
	Syntax-
	time (option) (command)
	£q
	1 time -p point time in posin formal
+-	who-
11	This command is used to point information.
	object there into all annothing forest to
6	about users who are univertly logged in.
1	who (option) (File Arg1 Arg2)
	who
-	uu to
	who am i-
1	his command is used to print the user name
a	sociated with the asserted effective userid
11 _	yntax-
	who ami (option)
	Eg who ami

q.	This command is used to list information
	1 I I I I I I I I I I I I I I I I I I I
	syntax- is (option) (file)
	Syntax- us topin
	Eq. & options-
	19, 18 4, 10 1,
	13-0, 13-S, 13-R.
10	Lannak-
10	bouner-
	This command supresents the given input
	in Janey way on screen.
	syntair barher string
	0
	000-
11.	cal=
	This command displays the calendar of
	cusionet year.
	Surtax - cal
	of 11 DOUD - shows november and
	calender
13.	thy-
	This command with is used to point the file none
	of the terminal connected to standard output.
	Synton- ty (option)
	2000
	eg - tty - version
	tty
	V
13.	Pwd-
	It stands for "Present working Directory"
	It startes the terest who will

		Date
	Q	Des C
	Eg- pwd (-1p)	
	J. bmg	
8.4	[D] (I)	-119.3
((2) (02)	
	103	(+3)
	D4 \ \[\D5 \]	[D6]
	(fy) (Fe)	T
	(3)	(1E)
	mkdir - p 01/02/04 01/03	D5 D1/03/06
	U	
	touch fi	
	touch fz	
	Cd Dy.	
	touch tu	
	Cd Cd	
	29 01	
	cd D3	
	touch f3	
	C d D5	
	touch fo	1 2
	cd 06	·
:	touch fro	
14.	Ls	
7	his command is used to vis	ew the hidden
	files-	
2	files. 3yntan- Ls (option) (HICS)) • • •

Page

This stands for "concatenation" 15. Cat optionscat > fl - this command is used to every file & also save content in file cat > fr - This command does not examp the data already stored in file & adds new data to existing data cat fl- display the content of file. cat fife > concat data of two files and display on screen. cat fife>f3 > concat data & store in f3 if any data is there in +3 it will be exased cat Af2>13 > concat data & store in f3 if data, solwady present, it will not be deleted cat fi>f2 > concept data to by to to fe and will overwite data in fz cat fix fz > copy data of fi to fz without deleting old data in 12. 16. cpcopy command. cp tifz -> copy data of fi to fz more-7. move data from one file to anothermove fi f2 > move data from fi to f2

18- 3057sort file and display contents on screen (in ascending order by default) options and legssort fr - sort tot display on scheen original data is not sorted. 30xt fi - 0 tz -> copy content of to & socied data is stored in te. sort -rf1 - sort data in descending order 30st -uf1 - it will show do not show duplicate data sort - mf1f2 > 30rt & merge f1 & f2 300t - 8m tite > severese merging. sort - M -> sort according to morths sort - nf1 -> sort numeric values. 16. decb-This command is used to search any string or substring in a file Syntan grep (options) filename. Options & eq. grep man fi -> will search word man in file contains 'man'. grep -i -> it is case insensitive. grep - v man fr. -> will display all the string which does not untain man.

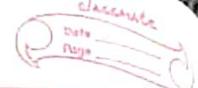
recrite . chasente

	Dets Page
	geep -n man fi => display content of string man with the number.
	areb man +1 -3 display da the strings
	grep mont fr => display all strings which and with man
20	
	syntax & example- head to - display mittal to lines of to
	head -20 fr -> display first 20 lines of fr.
81-	tail-
	syntax & eg.
	tail fi -> display last so lines of fi.
ત્રેટ.	pq.
	display I page at a time. in Juli screen.
	display I page at a time, ie, full wereen. Syntan & eg pag pg 11
	more-
23.	display I page and than line by line
g	synton feq. more fi.
24.	less-
	same as more
9	yntox e eg less fi

25	i- wc-
	stands for word count -
	It tells us the number of count.
	Options + eq
	we-l > point no. of lines
	we-a > point no of words
	we-c = print no of characters
	we to sprint no of dides lines words
	1 characters
26.	625/02-
	it is expression command.
	Eq. 4 Synton-
	expr 2+5
	empr 2/2
	enfor 2/+2 -> for multiplication.
1	expr 2+3-1(4+51)
	OC -
11	stands for binary calculator
1 1r	be command-
11	base means 10
11 .	base means 2
C	utor.
1.5	displays prime factor of any number.
	ntax f eg
17	netor 12. 3 display 1,2,3,4,6,12.
	7

2	9. In means link. 11 means link. 12 creates multiple links of any file 13 creates multiple links of any file 14 creates multiple links of any file 15 creates alique 16 for file of file 17 non-creating. In creates alique
30	Internal or enternal command.
_31.	chmod- It is used to change permission of owner group & user. Syntax & eg- chmod g+w fi chmod o-r fi
32 -	urmask- It will hinder specified permission value to change default permission. Process Handling Commands-
33.	Kill- This command is used when we want to commit any process before its completion. Syntax 4 reg- Kill process-name; Kill column-A:

nice-
This command is used to change
the priorities of values
dyntax & reg -
dyntar & reg-
nice -s pi-
nohup-
It wands for no hangup
This command is used to enter in
rypernate state.
· ·
Pit.
means that pi process will become
ackground process
O S
ar-
is command is used to compress
1300
file-
ntax-
for (options) file name.
rample-
tar flator
402-
s command is used to uncompress
ile-



39.	This command is used to pause the execution of the shell command laws for a given time.
40	read- r - it gives permission to seed only
41.	w- it gives read-write permission.
42-	ps- This command gives the dist of august executing (running) processes and some other information too. Syntax & process id. pid > process id. ppid > panent process id.
43.	vi- This command opens vi editor.
44 -	sh-

This command our shell program.



4 Piping -

45- \$ 28-1/more - Data

Data flow from left to right.

46. \$ 30xx file. Ext lunia.

tiret sort file text, then find

47 - echo -

This command display line of text! string passed as augument.

Eq. -

& echo " Hi, Welcome"

Hi, Welcome

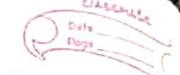
\$ echo - e " How /v are /v you?"

How

are

hous

\$ echo + -> same as ls.



1. Menu duiven program to perform varions (using it statement)

echo "enter à numbers"

reada

read b

echo " enter operator"

read opt

if [s opt = "+"]

then

V = \$ ((a+b))

elif [\$ opt = "-"]

then

 $y = $ ((\alpha - b))$

elif (3 opt = "x"]

then

v= \$ ((a+b))

elif [\$ opt = "/"]

then

v=\$((a/b))

elit [sopt = "x"]

then

v=\$((a/,b))

fi

echo \$v

Op-

enter a numbers

orien observes +

2.	meny goeiner prodeo	in to perform various	
	arithmetic operation	& (using case statement)	
	echo "enter tevo num	DEKS"	
	seag a	(1)	
	scaq p		
	echo " onter choice"		
	echo " 1. Addition"		
	echo "2. Subtraction		
	echo "3. Multiplicat	ion"	
	echo "4. Division".		
	read ch		
	case sch in		
	1). res = 'echo \$a+\$b 1 bc'		
	;;		
	3) res = cepo	\$a-\$b bc'	
).)		
	3). res = 'echo	\$a /* \$b bc'	

	4). res = 'echo	"scale=2; \$a/\$b"/bc	
	esac		
	echo "Result: " \$ res	mineral entre entre	
	Owput-		
	Enter two numbers 3	s. multiplication.	
2	2	4. Division.	
	3	2_	
E	enter choice	Result: -1	
	· Addition 2- Subtraction	1	
12	- Smilleller		

	find the maximum and minimum of
_3.	And mumbers.
	three given numbers.
	"" Loss House numbers".
	echo "enter three numbers".
	read a
	read b
	if [sa - gt sb] \$2 [sa - gt sc]
	u n je makunum.
	elif [\$b -9t \$c] 42 [\$b -9t \$a]
	PUIF L SD 9 T TO
	then "I'l " " " " " " " " " " " " " " " " " " "
	echo " b is maximum".
	986
	echo " c is maximum".
	F)
	0.111.11
	output - enter three numbers
	enter three numbers
	9
	6
	8
2 1	a is maximum.
	a is made num.

	classmate	2 34
0	Date	-
1	Page	

4.	check whether the number is even or
	echo "enter number". read n . $r = 3 (l 3n 7.2)$) if $[3r - eq o]$ then echo $5n$ " is even number". else echo $5n$ " is odd number". 1
	Output - Enter number. 7 13 odd number.

5. Check whether the number is positive negative echo "enter a number" read n if [sn -9+ 0] then echo sn" is positive" elif [an -ot 0] then echo \$n " is regative" elee echo en " is zello". fi. Outputenter a number -8 is regative.

fliate Freque

6. Generate table of a given number.

read n

utile [3i -le 10]

do

echo "\$n x \$i = 'expr \$n /* \$i'

i='expr \$i+1'.

done.

output - enter a number

5x0=05

5 X 1 = 5

 $5 \times 2 = 10$

 $5 \times 3 = 15$

5 X 4 = 20

5 x 5 = 25

 $5 \times 6 = 30$

 $5 \times 7 = 35$

5 x 8 = 40

 $5 \times 9 = 45$

5 x 10 = 50



7. Find sactorial of a given number.

echo "enter a number"

fact = 1

while [& num - gt 1]

do

fact = \$ ((fact * num))

num = \$ ((num -1)).

done

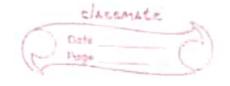
echo "factorial = " \$tact.

Output -

enter a number

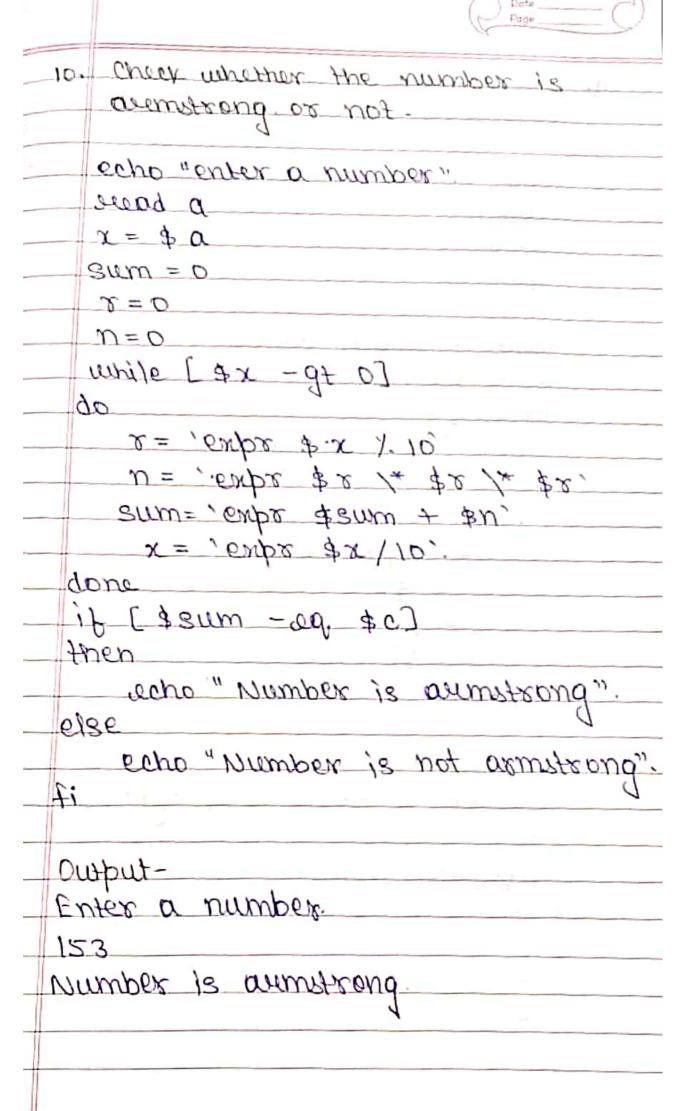
5

factorial = 120



8. Check number is better as not.
echo " enter a number"
read n.
9 = 2
flag = 0
while test \$1 -le 'empr \$11/2'
do
if test, expe \$2 1 \$1, -60 0
then
fi flag = 1
i = 'expr \$i + 1'
done
if test \$flag - eq.1
then
echo "The number is not prime".
else
echo "The number is prime".
Fi.
Owput -
enter a number
2
The number is prime.

```
check whether the no- is palindium
9.
   or not.
  echo "erder number".
  read num
   x6W=0
  26N = 0
   n = 4num
  while [ snum - 9+ 0]
  do
     zem = 4 ((num 1-10))
     num = $ (( num /10))
      Ten = $ (( Jen * 10 + Jem))
 done
 if [ $n - eq $ sev]
 then
      echo "number is palindrome"
 olse
      echo " number is not palindrame"
 ti
Output -
enter number
 131
 number is palindrome
```



11. Shell script to generate fibonacci series. echo "number of terms to be generally read n $\chi = 0$ 4=1 echo "Fibenacci sexies". echo \$x echo \$4 while [\$: - 1+ \$n] do i = 'expr \$i + 1' z = 'enpr \$x + \$4'. echo \$2 x = \$4 done. Outputnumber of terms to be generated. fibonacci series 0

	Page Page
12	Shell program for sorting a so et numbers. The set of numbers are to be entered through file.
	read file read file
	if [1 -f \$file] then
	exit! exit! fi
	sort natite.
	Output -
	Enter filename
	10
	32
	100



13. Shell script for generation and summer of national number

echo "Enter size"
read N

1 = 1

sum = 0 -

while [\$1 -le \$N]

do

num = \$ ((sum + i))

i = b((i+1))

done

echo "Sum = " \$sum

Owput-

Enter size

5

sum = 15



14.	at all prime suntage and wun
	of all prime numbers between any
	The state of the s
	early " enter two numbers".
	read n.
	read m.
	SUM = 0
	for $((i=n;i<=m;i++))$
	do
	for (j=2; j<=\$((i/2));j++))
	- 90
	if [\$((i),i)) - ne 0]
	then
	echo \$i
	sum = \$ ((sum + i))
	f;
	done
	done
	echo "sum = " \$ sum.
	Output -
	enter a numbers
	'7
	1
	_2
	3
	5
	7
	sum = 18.

Deta Props

15 - FOHEEN **

i=1
udvile [\$i-le 4]
do

j=1
while [\$j-le \$i]

do echo " *(c)" j = 4 ((4j + 1))done

echo "/r"

i = \$ ((\$i+1))

done

Output -

¥ 7-

* * *

* * * *

16. 1234 while [& i - le 4] do while [\$j-le \$i] do echo \$ j " \c" j= \$ ((\$j+1)) done echo "/n" i = \$ ((\$i+1)) done

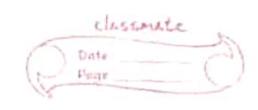
- tuqtu0

1_2_

1 2 3

1234.

17. i = 1while [\$1 -le 4] do while [\$j-le \$i] do echo " + /c" j= \$ ((\$j+1)) done echo "/n". i=\$((\$i+1)) done i = 3while [\$i-gej] do j=1_ mile [\$j-le \$i] do echo "*/c". j=\$((\$j+1)) done echo " \n". i = \$ ((\$i-1)) done



echo "enter birary rumber"

read bin

SUM = 0

1=1

while [stbin - ne o]

do

16w = \$(crb2 \$pin 1. 10)

bin = \$ (expr \$ bin / 10)

sum = \$ (expr & sum + \$ 0 cm / \$)

i = \$ (expr \$i/* 2)

done

echo " decimal equi is \$ sum".

output -

enter binary num

101

decimal equi is 5.

```
19. pattern
  echo "enter n".
  read n
  for (int ((i=1; i<=m; i++))
  do
   for ((j=n-i; j>=1; j--))
   do
      echo -n " "
   done
   for ((K=1; K <= i; K++))
   do
   echo -n "+"
  done
  echo
done
Output-
enter n.
```

Pattern.
* V V
echo " enter n"
read n.
for ((i=1; i<= n; i++))
do
do ((j=n-i; j>=1; j==))
echo -n ""
done
for ((K=1; K <= i; K++1)
do
echo -n " *"
done
echo
one
utput -
enter.n
5
₩ ፟
* * *·
₹ * * *
* * * * *

1				Page	
21 0.0	1102-00	+ +	* *	The state of the s	
21. ba	mern	»- »	*		
		* *			
		N			
		* i* *	*		
			* *		
for	((i=)	; 9 <=	7; 1+	+))	
do					
	if [\$i	- le 4			
	then $((j=4; j <= 9; j))$				
	do				
	echo -n "+".				
	done				
	else				
	for	((i =);	j>3;	j))	
	do	,	J		
	0,	cho -n	" * "		
	done				
fi					
II .	ho				
11				ė.	
done					
				10 % N	
Out	out -		* *		
		* *	*		
		* *			
		* * *			
		* *			
			* *		