Lab-7   3ʳᵈ Jan 2023

1)   Ls .-il   emp.sh   faq. sh
    7349175   -rwxr - u   1 Bmsce   bmsce 226
                      Nov   28   12:48 emp.s

    7349211   -rwxr - u   1Bmsce   log. Nov 28
                          12:13 faq.sh

2)   Hard link

    cat y emp. doc
    Hellow world
    This   is   shell prog

    In   emp . doc   emp.lst
    ls - il   emp. doc   emp.lst

    Output
    1 89115   - rw - rw-r -- 2 bmsce   cse
                  36 Jan   11:40 emp.do
   1891151   - rw - rw-r--2 bmsce cse   36 Jan 3
                        11:40 emp.lst

3)   cat y file
    1   2   3   4   5   6   7   8   9   10

    Pa file
    2023 - 01 - 03   12:03   file   Page 1

    1   2   3   4   5   6   7   8   9   10

Pr -3 file

1	5	8
2	6	9
3	7	10
4		

Pr -n Cal.sh

```
1    #!/bin/bash
     echo "Enter 2 numbers"
     read a
     read b

     echo "enter operation : \n"
     echo "1. addition"
     echo "2. Substraction"
     echo "3. Multiplication"
     echo "4. modulus"
     echo "5. division"

     read op

     Case $op in
             1) echo "scale=3; $a+$b" | bc
             ;;
             2) echo "scale=3; $a-$b" | bc
             ;;
```

```
3) mul = $ (echo $a | * $b | bc)
   echo $mul
   ;;
4)  echo " Scale = 3;  $a / $b" | bc
   ;;

5)   echo " Scale = 3;  $a | $b" | bc
      ;;
   * ) echo " Choose valid input "

   esac .
```

Pr -h " New " Shell.sh

```
echo " Enter, a String"
read text
words = $(echo -h "$ text" | wc -w)
char  = $ (echo -n "$ text" | wc -c)

echo " Num of words = $ word"
echo " Num of Char = $ Char"


head

head name list
   Joe
   keshav
   Maltesh
   Mao
   Menul
```

kanshit
Pratek
Pankaj

head — n^5 namelist

Joe
keshav
Maltesh
Mao
Mehul

tail

tail — n 5 name list
Mehul
kanshit
Pratek
Pankaj
Raj

tail — c 9 namelist

nkaj
Raj

Cut

Cut Y maeks
mao — 89
James — 69

Nortje - 77

cut -b 1, 2, 3 marks

mao
Jam
Nor

cut - c 4-7 marks

- 89
es -6
tje -

Paste

Paste : joins file Horizontally

Paste file file 1

Hello Sir am Himanshy

Sort

Sort stud
Abhi
Joe
Mao
Somani
Zeke

uniq

cat > name list

Joe

Ajay
Abhay
Zeke

uniq -d namelist
Ajay

uniq -u namelist
Joe
Zeke

uniq -c namelist
    1 joe
    2 Ajay
    3 Zeke

Translating

20) tr 'a-z' 'A-Z' < sample
  A FRIEND IN NEED ISA FRIEND
       INDEED

21) ls -il test
  7353475 -rw-r--r--1 bmsce bmsce
             6 Jan 11: 15

22) ln test test.txt
  ↑   ↑

Actual   Same inode as first
copies
of file

7353475 test
7353475 test.text

23) ln-s test.test sym
↑
A Pointer

24) umask
00 22
Default file and directory Permission

25) ls-l : time of last file modification

ls-l even.sh
-rw-r--r--l bmsce bmsce ll doc 6 12:05

26) ls -r even.sh
-rw-r--r=1 bmscecse bmscese 148
Jan 3 11:38
even.sh

27) ls-ls test
-rw-r--r=1 bmscese 6 Jan
5 12:06 test

28) find . -name "*.sh" -print
All shell script files are Printed.