

FILE EMP.LST

101|ajay|sales|manager|25000|12/10/1990
102|asha|marketing|g.m|30000|10/02/2020
103|mr. shah|purchase|cleark|15000|10/05/2001
104|amar|testing|tester|25000|10/10/2002
105|raj|admin|clerk|40000|05/10/2010
106|rahul|sales|manager|25000|12/10/1990
107|mr. patel|marketing|g.m|30000|10/02/2020
208|mr. shah|purchase|cleark|15000|10/05/2001
109|amar|testing|tester|25000|10/10/2002
210|MR. Agarwal|admin|clerk|40000|05/10/2010
111|Ajay agrawal|testing|tester|25000|10/10/2002
112|Anil aggarwal|purchase|cleark|15000|10/05/2001

FILE DEPT

sales

account

account

sales

marketing

purchase

purchase

testing

admin

personnel

1. WRITE A SHELL SCRIPT TO FIND PATTERN (SALES FROM EMP.LST FILE)

```
if test $# -eq 0
then
    echo "Not Enough Arguments"
elif test $# -eq 2
then
    echo "Pattern Found"
    grep $1 $2
fi
```

2. #w.a.s to take input as a file name and display total no.of lines words and charcters

```
echo "Enter file name : "
read fname
l=`wc -l $fname`
c=`wc -c $fname`
w=`wc -w $fname`
echo "No. of lines are :$l"
echo "No.of Characters are :$c"
echo "No. of words are:$w"
```

3.

#take input as a file name and display 3rd column in sorted order

```
cut -d"|" -f 3 $1 | sort -u | tee sort1
```

4. WRITE A SHELL SCRIPT TO CHECK OLDER AND NEWER FILE , MAKE OLD FILE AS NEW

```
echo "enter old file name:"
read old
echo "enter new file name:"
read new
```

```
echo "file name with date and time"

ls -lt $old $new

touch $old

echo "List of file name after changes"

ls -l $old $new
```

5. WRITE A SHELL SCRIPT TO FIND PATTERN USING COMMAND LINE ARGUMENT

```
if test $# -eq 0
then
    echo "Not Enough Arguments"
elif test $# -eq 2
then
    echo "Pattern Found"
    grep $1 $2
fi
```

6. WRITE A SHELL SCRIPT TO FIND GREATER AND LESS VALUE

```
echo "enter a value of a"
read a

echo "enter a value of b"
read b

if test $a -eq $b
then
    echo equal
elif test $a -gt $b
then
    echo "$a is greater than $b"
elif test $a -lt $b
then
    echo "$a is less than $b"
```

```
else
    echo "not equal"
fi
```

7.

#chk given pattern is match or not

```
echo "enter file name"
read fname
echo "enter pattern 1"
read p1
if grep $p1 $fname
then
    echo found
else
    echo not found
fi
```

8.

#chk given pattern is match or not

```
echo "enter file name"
read fname
echo "enter pattern 1"
read p1
echo "enter pattern 2"
read p2
if grep $p1 $fname
then
    echo "$p1 found"
elif grep $p2 $fname
then
    echo "$p2 found"
else
```

```
echo "not found"
```

```
fi
```

9. WRITE A SHELL SCRIPT TO check value equal or not

```
echo "enter a value of a"
```

```
read a
```

```
echo "enter a value of b"
```

```
read b
```

```
if test $a -eq $b
```

```
then
```

```
    echo eqall
```

```
else
```

```
    echo "not equal"
```

```
fi
```

```
string1
```

```
# check string comparision operator
```

```
if [ -z "$1" -o -z "$2" ]
```

```
then
```

```
    echo "String is null"
```

```
elif [ $1 = $2 ]
```

```
then
```

```
    echo "strings are Euall"
```

```
elif [ $1 != $2 ]
```

```
then
```

```
    echo "Strings are not equal"
```

```
else
```

```
    echo "string is not null"
```

```
fi
```

file1

#file test attribute

```
if [ $# -eq 1 ]
then
if [ ! -e $1 ]
then
    echo "File does not exist"
elif [ -f $1 ]
then
    echo "File exist"
else
    echo "wrong file name"
fi
else
    echo "file name not given"
fi
```

file 2: check file attribute

```
echo "enter file name"
read fname
if [ -r $fname ]
then
    echo "File is readable"
fi
if [ -w $fname ]
then
    echo "file is writable"
fi
if [ -x $fname ]
```

then

echo "file is executable"

fi

file 3

#check file is directory or not , and display no. of files available in it

if [\$# -eq 1]

then

if [-d \$1]

then

echo "\$1 is a directory"

echo "Number of file available in it"

ls -l \$1 | grep "^[d]" | wc -l

else

echo "\$1 is not a directory"

fi

else

echo "not enough arguments"

fi

file 4

check file is newer or older

if [\$# -eq 2]

then

if [\$1 -nt \$2]

then

echo "\$1 is newer than \$2"

touch \$2

ls -l \$1 \$2

echo "newer file is \$2"

else

```

ls -l $1 $2

echo "$1 is older than $2"

touch $1

ls -l $1 $2

echo "older file is $2"

fi

else

echo "not enough arguments"

fi

```

write a shell script for mathematical calculation (expr)

```

echo "enter value1"

read a

echo "enter value2"

read b

sum=`expr $a + $b`

echo "addition is :$sum"

sub=`expr $a - $b`

echo "subtraction is :$sub"

mul=`expr $a \* $b`

echo "Multiplication is :$mul"

div=`expr $a / $b`

echo "division is :$div"

modulus=`expr $a % $b`

echo "Modulus is :$modulus"

```

example of switch case case1

```

#multichioce case

echo " Menu "

echo "1.display list of files"

echo "2.User Process"

echo "3.Today's date"

```



```
echo "4.no. of users"

echo "5.quit"

echo "enter Your choice:"

read ch

case "$ch" in

    1) ls -l;;

    2) ps -f;;

    3) date ;;

    4) who ;;

    5) exit ;;

    *) echo "invalid option"

Esac
```

example of while

```
#multichioce case

while [ true ]

do

echo " Menu  "

echo "1.check string is null or not"

echo "2.find lenght"

echo "3.subtring"

echo "4.display basename"

echo "5.quit"

echo "enter Your choice:"

read ch

case "$ch" in

    1) echo "Enter a string"

        read stg

        if [ -z "$stg" ]

        then

            echo "null string"
```

```

else
    echo "not null"
fi

;;

2) echo "enter a string"

read stg

echo "length of string is `expr "$stg" : '.*'`"

;;

3) echo "enter a string"

read stg

echo "sub string is `expr "$stg" : '.....\(...\)`"

;;

4) echo "enter a filename :"

read fname

echo "extract basename"

read chr

echo "basename is ::`basename $fname $chr`"

;;

5) exit ;;

*) echo "invalid option"

esac

done

```

example of for loop and basename

```

for fname in *.txt
do
    leftnm=`basename $fname txt`
    mv $fname ${leftnm}doc
done

```