

```
clear
if [ $# -ne 1 ]
then
    echo "No argument"
    exit
fi
if [ ! -e $1 ]
then
    echo "The given directory does not exist"
    exit
fi

max=`ls -lR $1 | sort -k5 -n | tr -s " " | tail -1 | cut -d " " -f5`
name=`ls -lR $1 | sort -k5 -n | tr -s " " | tail -1 | cut -d " " -f9-`
echo "The file with maximum length of $max filename is $name"
```

```
clear
echo -e "Enter Direcotry Name like (a/b/c/d) :- \c"
read dname
cur=`pwd`
IFS="/"
for i in $dname
do
    if [ -d $i ]
    then
        echo "Direcotry Exsist"
    else
        mkdir $i
        echo "Directory Created $i"
    fi
    cd $i
done
cd $cur
```

```
#Two File Permission Check
clear
echo -e "Enter First FileName :- \c"
read f1
echo -e "Enter Secoend FileName :- \c"
read f2
if [ -f "$f1" -a -f "$f2" ]
then
    per1=`ls -l $f1 | tr -s " " | cut -d " " -f1`
    per2=`ls -l $f2 | tr -s " " | cut -d " " -f1`
    if [ "$per1" = "$per2" ]
    then
        echo "permission Are Same = $per1 "
    else
        echo "permission are different"
    fi
else
    echo "please Enter Correct Filename"
fi
```

```
#invalid login then Display user path
clear
echo -e "Enter Username :- \c"
read name
if [ -z $name ]
then
    echo "Please Enter Correct Name "
else
    path=`grep "$name" /etc/passwd | cut -d ":" -f6`
    if [ ! -z $path ]
    then
        echo "user = $name and path is = $path"
    else
        echo "invalid Username"
    fi
fi
```

```
#terminal locked after password
clear
stty -echo
echo -e "Enter Password :- \c"
read pass
echo -e "\nEnter Confirm Password :- \c"
read cpass
if [ "$pass" = "$cpass" ]
then
    echo -e "\nTerminal Are Locked !"
    echo -e "Enter Password To Unlock Terminal :-\c"
    read apass
    while [ "$cpass" != "$apass" ]
    do
        echo -e "\nWrong Password Agin Type : \c"
        read apass
    done
    echo -e "\n"
else
    echo -e "\nPassword Don't Match"
fi
stty echo
```

```
|clear
for i in `ls`
do
    count=`expr $i : '.*'`
    if [ $count -gt 10 ]
    then
        echo $i
    fi
done
```

```
#user logged in name morning print  
clear  
h=`date +%H`  
if [ $h -lt 12 ]  
then  
    echo "Good Morning"  
elif [ $h -lt 18 ]  
then  
    echo "Good Evening"  
else  
    echo "Good Night"  
fi
```

```
clear
while [ true ]
do
    echo -e "Enter Filename :- \c"
    read fl
    if [ -f $fl ]
    then
        ftime=`ls -l $fl | tr -s " " | cut -d " " -f6-8`
        echo -e "\n File Name is $fl and time is $ftime"
    fi
    echo -e "\nEnter Want To know anothor fie (Y/N) :- \c"
    read choice
    if [ $choice != 'N' ]
    then
        exit
    fi
done
```



```
if [ $# -ne 0 ]
then
  for f in $*
  do
    if [ -f $f ]
    then
      echo "---- $f Uppercase ---- "
      cat $f | tr "a-z" "A-Z"
      echo "-----"
    else
      echo "Not File"
    fi
  done
else
  echo "Not Argument"
fi
```

```
clear
if [ $# -eq 0 ]
then
    echo "Enter The Argument !"
else
    for i in $*
    do
        if [ -f $i ]
        then
            size=`ls -l $i | tr -s " " | cut -d " " -f5`
            echo "Filename Is = $i and Size =$size"
            if [ -w $i ]
            then
                echo "writeble"
            fi
            if [ -r $i ]
            then
                echo "readable"
            fi
            if [ -x $i ]
            then
                echo "executable"
            fi
            stat $i
        else
            echo "File Not Found"
        fi
    done
fi
```

```
clear
if [ $# -eq 0 ]
then
    echo "Give The Filename And Directory Name"
else
    dir=`pwd`
    if [ $# -eq 2 ]
    then
        dir=$2
    fi
    echo "Directory Is :- $dir"
    link=`ls -l $dir/$1 | tr -s " " | cut -d " " -f2`
    inode=`ls -li $dir/$1 | tr -s " " | cut -d " " -f1`
    echo "No Of Link $1 are : $link"
    echo "Inode Number is = $inode"
    if [ $link -eq 1 ]
    then
        echo "The File Has No Links"
    else
        echo "The Name Of The Link File Are "
        find $dir -inum $inode -print
    fi
fi
echo "Number of linkes of file $1: $link"
```

```
if [ $# -eq 0 ]
then
    echo "Enter File Names !"
else
    str=`cat $1 | tr ' ' '\n' | sort | uniq`
    shift
    for wrd in $str
    do
        cnt=0
        for file in $*
        do
            n=`grep -wc $wrd $file`
            cnt=`expr $cnt + $n`
        done
        echo "$wrd word count : $cnt"
    done
fi
```

```
d=`date +%e`  
echo "Today's Date is:  $d"  
n=`cal | grep    -nw  $d | cut -d ":" -f1`  
echo $n $d  
if [ $d -le 9 ]  
then  
    cal | sed "$n s/4/*/"  
else  
    cal | sed "$n s/$d/**/"  
fi
```

```
if [ $# -ne 3 ]
then
    echo "Please Enter Filename,Star and End Line In Argument"
else
    echo "Content Of File "
    cat $1
    echo "\n"
    if [ $2 -le $3 ]
    then
        sed -n "$2,$3 p" $1
    else
        echo "The Order Is Wrong"
    fi
fi
```

```
if [ $# -eq 1 ]
then
    sed 's/.{\40\}/&\\ /g' <$1> ofile
    echo "Appending a \ after every 40th Character"
    cat ofile
else
    echo "Please Enter Argument"
fi
```

```
BEGIN{
  da="312831303130313130313031"
  mo="JANFEBMARAPRMAYJUNJULAUGSEPOCTNOVDEC"
  dd=substr(ARGV[1],1,2)
  mm=substr(ARGV[1],4,2)
  yy=substr(ARGV[1],7,4)
  l=length(ARGV[1])
  if(yy%4==0)
  {
    da="312931303130313130313031"
  }
  if(dd < substr(da,2*mm-1,2) || mm < 12 || l==4)
  {
    printf ("%d-%s-%d",dd,substr(mo,3*mm-2,3),yy)
  }
  else
  {
    printf "Invalid Date"
  }
}
```



```
{  
  if (data[$0]++ == 0)  
  {  
    line[++count]=$0  
  }  
}  
END{  
  for (i=1; i<= count; i++)  
  {  
    printf "%s\n",line[i]  
  }  
}
```

```

BEGIN {
    printf "Total number of books each category\n";
    printf "-----\n"

}
{
    b[$1]+=$2
}
END{
    for(item in b)
    {
        printf "%-15s %s %5d \n", item , "=", b[item];
        total+=b[item];
    }
    printf "%-15s %s %5s \n", "total books", "=",total;
}

```