**//TO FIND THE DETAILS OF USER SESSION**

function line()

{

echo "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"

}

echo "Your username : $(echo $USER)"

line # call function

echo "Current date and time : $(date)"

line

echo "Currently logged on users:"

who

line

**OUTPUT**

ubuntu@ubuntu:~$ vi file1.sh

ubuntu@ubuntu:~$ chmod +x file1.sh

ubuntu@ubuntu:~$ ./file1.sh

**Your Username : ubuntu**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Current Date and Time : Fri Oct 11 12:04:02 UTC 2013**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Currently logged on users :**

**ubuntu tty4 2013-10-11 11:29**

**ubuntu tty3 2013-10-11 11:29**

**ubuntu tty5 2013-10-11 11:29**

**ubuntu tty6 2013-10-11 11:29**

**ubuntu tty2 2013-10-11 11:29**

**ubuntu tty1 2013-10-11 11:29**

**ubuntu tty7 2013-10-11 11:31**

**ubuntu pts/1 2013-10-11 11:59 (:0)**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

ubuntu@ubuntu:~$

**// TO CHANGE THE EXTENSION OF A GIVEN FILE**

echo “WELCOME”

**OUTPUT**

ubuntu@ubuntu:~$ vi file2.sh

ubuntu@ubuntu:~$ chmod +x file2.sh

ubuntu@ubuntu:~$ ./file2.sh

**WELCOME**

ubuntu@ubuntu:~$ ls

**Desktop Downloads Music Public Videos**

**Documents file2.sh Pictures Templates**

ubuntu@ubuntu:~$ mv file2.sh file2.txt

ubuntu@ubuntu:~$ ls

**Desktop Downloads Music Public Videos**

**Documents file2.txt Pictures Templates**

ubuntu@ubuntu:~$ chmod +x file2.txt

ubuntu@ubuntu:~$ ./file2.txt

**WELCOME**

ubuntu@ubuntu:~$

**//TO FIND WHETHER THE GIVEN NUMBER IS PRIME OR NOT**

echo " Enter N Value : "

read n

i=2

j=0

while(($i<$n))

do

if(($n % $i==0))

then

j=$((j+1))

fi

i=$((i+1))

done

if(($j==0))

then

echo "$n IS PRIME NUMBER "

else

echo " $n IS A COMPOSITE NUMBER "

fi

**OUTPUT**

ubuntu@ubuntu:~$ chmod +x prime.sh

ubuntu@ubuntu:~$ ./prime.sh

Enter N Value :

**23**

**23 IS PRIME NUMBER**

ubuntu@ubuntu:~$ ./prime.sh

enter n value :

**12**

**12 IS A COMPOSITE NUMBER**

ubuntu@ubuntu:~$

**// TO FIND THE BIGGEST OF THREE NUMBERS**

echo “ Enter A Value : “

read a

echo “ Enter B Value : “

read b

echo “ Enter C Value : “

read c

if(((a>b))&&((a>c)))

then

echo “ A IS BIG “

else if((b>c))

then

echo “ B IS BIG “

else

echo “ C IS BIG ”

fi

fi

**OUTPUT**

ubuntu@ubuntu:~$ chmod +x big.sh

ubuntu@ubuntu:~$ ./big.sh

Enter A Value :

**10**

Enter B Value :

**12**

Enter C Value :

**7**

**B IS BIG**

ubuntu@ubuntu:~$

**//TO FIND WHETHER THE GIVEN NUMBER IS ODD OR EVEN**

echo "Enter N Value : "

read n

if(($n%2==0))

then

echo "$n IS EVEN "

else

echo "$n IS ODD "

fi

**OUTPUT**

ubuntu@ubuntu:~$ vi odd.sh

ubuntu@ubuntu:~$ chmod +x odd.sh

ubuntu@ubuntu:~$ ./odd.sh

Enter N Value :

**6**

**6 IS EVEN**

ubuntu@ubuntu:~$ ./odd.sh

Enter N Value :

**3**

**3 IS ODD**

ubuntu@ubuntu:~$

**//TO GENERATE FIBONACCI SERIES**

echo "Enter N Value :"

read n

echo “FIBONACCI SERIES”

echo “\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*”

f1=-1

f2=1

f3=0

for((i=0;i<=n;i++))

do

f3=$((f1+f2))

echo $f3

f1=$f2

f2=$f3

done

**OUTPUT**

ubuntu@ubuntu:~$ chmod +x fibo.sh

ubuntu@ubuntu:~$ ./fibo.sh

Enter N Value :

**5**

**FIBONACCI SERIES**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**0**

**1**

**1**

**2**

**3**

**5**

ubuntu@ubuntu:~$

**// TO PREPARE ELECTRIC BILL**

echo "ELECTRICITY BILL"echo "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*" echo "Enter Customer Number :" read cusnoecho "Enter Customer Name :"read cusnameecho "Enter Previous Reading : " read preread echo "Enter Current Reading :"read curreadecho "Enter Signature :"read sign let unit="$((curread-preread))"if(($unit<=100))thenlet charge="$((unit\*75/100))"else if((($unit>100)) && (($unit<=200)))thenlet charge="$((unit-100))\*150/100+75"elselet charge="75+150+(($unit-200))\*3"fifiecho "CUSTOMER NUMBER :" $cusnoecho "CUSTOMER NAME :" $cusname echo "PREVIOUS READING :" $prereadecho "CURRENT READING :" $curreadecho "UNITS CONSUMED :" $unitecho "CHARGE AMOUNT :" $chargeecho "CUSTOMER SIGNATURE :" $sign

**OUTPUT**

ubuntu@ubuntu:~$ vi electri.shubuntu@ubuntu:~$ chmod +x electri.shubuntu@ubuntu:~$ ./electri.sh

**ELECTRIC BILL\*\*\*\*\*\*\*\*\*\* \*\*\*\*\***

Enter Customer Number :**101**Enter Customer Name :**yyy**Enter Previous Reading : **200**Enter Current Reading :**300**Enter Signature :**yyy**

**CUSTOMER NUMBER : 101CUSTOMER NAME : yyyPREVIOUS READING : 200CURRENT READING : 300UNITS CONSUMED : 100CHARGE AMOUNT : 75CUSTOMER SIGNATURE : yyy**

ubuntu@ubuntu:~$

**//TO PREPARE A PAYROLL**

echo " PAYROLL "echo " \*\*\*\*\*\*\*\*\*\* "echo "Enter Employee Number : "read empnoecho "Enter Employee Name : "read empnameecho "Enter Basic Pay : "read bpecho "Enter Dearness Allowance : "read daecho "Enter House Rent Allowance : "read hraecho "Enter Provident Fund : "read pfecho "Enter Medical Allowance : "read magross="$((bp+da+hra))"rec="$((pf+ma))"net="$((gross-rec))"echo "EMPLOYEE NUMBER : " $empnoecho "EMPLOYEE NAME : " $empnameecho "BASIC PAY : " $bpecho "DEARNESS ALLOWANCE : " $daecho "HOUSE RENT ALLOWANCE : " $hraecho "PROVIDENT FUND : " $pfecho "MEDICAL ALLOWANCE : " $maecho "GROSS PAY : " $grossecho "RECEIVABLE : " $rececho "NET : " $net

**OUTPUT**

ubuntu@ubuntu:~$ vi employee.shubuntu@ubuntu:~$ chmod +x employee.shubuntu@ubuntu:~$ ./employee.sh

**PAYROLL \*\*\*\*\*\*\*\*\*\***

Enter Employee Number : **101**Enter Employee Name : **xxx**Enter Basic Pay : **12000**Enter Dearness Allowance : **3000**Enter House Rent Allowance : **4000**Enter Provident Fund : **1000**Enter Medical Allowance : **1000**

**EMPLOYEE NUMBER : 101EMPLOYEE NAME : xxxBASIC PAY : 12000DEARNESS ALLOWANCE : 3000HOUSE RENT ALLOWANCE : 4000PROVIDENT FUND : 1000MEDICAL ALLOWANCE : 1000GROSS PAY : 19000RECEIVABLE : 2000NET : 17000**

ubuntu@ubuntu:~$

**//TO CHECK THE FILES ENDING WITH VOWELS**

echo "LIST OF FILES ENDING WITH VOWELS "echo "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* " echo "Do you want to list files ending with"echo "1.a"echo "2.e"echo "3.i"echo "4.o"echo "5.u"echo "6.exit"echo "Enter your choice 1/2/3/4/5/6"read chcase $ch in1)ls \*a.sh;;2)ls \*e.sh;;3)ls \*i.sh;;4)ls \*o.sh;;5)ls \*u.sh;;6)exitesac

**OUTPUT**

ubuntu@ubuntu:~$ vi vowels.shubuntu@ubuntu:~$ chmod +x vowels.shubuntu@ubuntu:~$ ./vowels.sh

LIST OF FILES ENDING WITH VOWELS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Do you want to list files ending with

1.a2.e3.i4.o5.u6.exit

Enter your choice 1/2/3/4/5/6**1biodata.sh**

ubuntu@ubuntu:~$ ./vowels.sh

LIST OF FILES ENDING WITH VOWELS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Do you want to list files ending with

1.a2.e3.i4.o5.u6.exit

Enter your choice 1/2/3/4/5/6**2employee.sh**

ubuntu@ubuntu:~$

**// TO SORT NUMBERS IN ASCENDING AND DESCENDING ORDER**

echo "SORTING NUMBERS"echo "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"echo "Enter the number of values to be sorted"read necho "Enter the numbers to sort"for((i=0;i<$n;i++))doread a[$i]doneecho "THE GIVEN NUMBERS ARE "for((i=0;i<$n;i++))doecho $[a[$i]]doneecho "THE ASCENDING ORDER IS"for((i=0;i<$n;i++))dofor((j=$i+1;j<$n;j++))doif(($[a[$i]]>$[a[$j]]))thent=$[a[$i]]a[$i]=$[a[$j]]a[$j]=$tfidoneecho $[a[$i]]doneecho "THE DESCENDING ORDER IS"for((i=0;i<$n;i++))dofor((j=$i+1;j<$n;j++))doif(($[a[$i]]<$[a[$j]]))thent=$[a[$i]]a[$i]=$[a[$j]]a[$j]=$tfidoneecho $[a[$i]]done

**OUTPUT**

ubuntu@ubuntu:~$ vi sort.shubuntu@ubuntu:~$ chmod +x sort.shubuntu@ubuntu:~$ ./sort.sh

**SORTING NUMBERS\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

Enter the number of values to be sorted**5**Enter the numbers to sort**7854981247**THE GIVEN NUMBERS ARE **7854981247**THE ASCENDING ORDER IS**1247547898**THE DESCENDING ORDER IS**9878544712**ubuntu@ubuntu:~$