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**Assignment No. 01**

**Name of Student:** Rupesh Ramesh Desai **Roll No. :**

**Class:** B.Sc III **Date: / /**

**Signature:**

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**Q. Write a shell script using grep command to print prime numbers between 2 to 30.**

**Program:**

echo enter m and n

read m n

for a in $(seq $m $n)

do

k=0

for i in $(seq 2 $(expr $a - 1))

do

if [ $(expr $a % $i) -eq 0 ]

then

k=1

break

fi

done

if [ $k -eq 0 ]

then

echo $a

fi

done

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*OUTPUT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

ubuntu@ubuntu-desktop:~$ vi as1.sh

ubuntu@ubuntu-desktop:~$ sh as1.sh

enter m and n

2 30

2

3

5

7

11

13

17

19

23

29

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

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**Assignment No. 02**

**Name of Student:** Rupesh Ramesh Desai **Roll No. :**

**Class:** B.Sc III **Date: / /**

**Signature:**

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

**Q. Write a shell scripts to find whether the supplied user working on network or not.**

**If he/she is working then display his/her login time.**

**Program:**

echo "Enter user name"

read name

who > test

if grep $name test

then

echo "logged in"

else

echo "not logged in"

fi

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*OUTPUT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

ubuntu@ubuntu-desktop:~$ vi as2.sh

ubuntu@ubuntu-desktop:~$ sh as2.sh

Enter user name

Rupesh

not logged in

ubuntu@ubuntu-desktop:~$ sh as2.sh

Enter user name

ubuntu

ubuntu :0 2023-04-18 12:55 (:0)

logged in

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

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**Assignment No. 03**

**Name of Student:** Rupesh Ramesh Desai **Roll No. :**

**Class:** B.Sc III **Date: / /**

**Signature:**

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**Q. Write a an awk program to display customer earning report with given format.**

**Program-**

ajay manager account 45000

Aniket clerk account 25000

varun manager sales 50000

amit manager account 47000

tarun peon sales 15000

deepak clerk sales 23000

sunil peon sales 13000

satvil director purchase 80000

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*OUTPUT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

ubuntu@ubuntu-desktop:~$ awk '{print}' as3.sh

ajay manager account 45000

Aniket clerk account 25000

varun manager sales 50000

amit manager account 47000

tarun peon sales 15000

deepak clerk sales 23000

sunil peon sales 13000

satvil director purchase 80000

ubuntu@ubuntu-desktop:~$ awk '/manager/ {print}' as3.sh

ajay manager account 45000

varun manager sales 50000

amit manager account 47000

ubuntu@ubuntu-desktop:~$ awk '{print NR,$0}' as3.sh

1 ajay manager account 45000

2 sunil clerk account 25000

3 varun manager sales 50000

4 amit manager account 47000

5 tarun peon sales 15000

6 deepak clerk sales 23000

7 sunil peon sales 13000

8 satvil director purchase 80000

ubuntu@ubuntu-desktop:~$ awk '{print $1,$NF}' as3.sh

ajay 45000

sunil 25000

varun 50000

amit 47000

tarun 15000

deepak 23000

sunil 13000

satvil 80000

ubuntu@ubuntu-desktop:~$ awk '{print $1,$4}' as3.sh

ajay 45000

sunil 25000

varun 50000

amit 47000

tarun 15000

deepak 23000

sunil 13000

satvil 80000

ubuntu@ubuntu-desktop:~$ awk 'NR==3,NR==6 {print NR,$0}' as3.sh

3 varun manager sales 50000

4 amit manager account 47000

5 tarun peon sales 15000

6 deepak clerk sales 23000

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

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**Assignment No. 04**

**Name of Student:** Rupesh Ramesh Desai **Roll No. :**

**Class:** B.Sc III **Date: / /**

**Signature:**

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**Q. Write a shell script which accept a file name asm input. Find out whether it is ordinary file or directory. If a file is available then display all file access permission screen.**

**Program:**

echo "Enter a file name"

read filename

if [ -d $filename ]

then

echo "The provided argument is the directory"

elif [ -f $filename ]

then

echo "The provided argument is the file"

elif [[ -w $filename ] && W=" Write = yes " || W=" Write = no "]

then

echo " $filename permissions "

echo "$W"

elif [[ -x $filename ] && X=" Execute = yes " || X=" Execute = no " ]

then

echo " $filename permissions "

echo "$R"

elif [[ -r $filename ] && R=" Read = yes " || R=" Read = no "]

then

echo " $filename permissions "

echo " $X "

else

echo "The given argument does not exist"

fi

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*OUTPUT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

om@om-desktop:~/Documents/vi as4.sh

om@om-desktop:~/Documents/sh as4.sh

Enter a file name

Rupesh

The provided argument is the file

Rupesh permissions

Write=yes

Execute=yes

Read=no

om@om-desktop:~/Documents/sh as4.sh

Enter a file name

Sandesh

The provided argument is the directory

Sandesh permissions

Write=yes

Execute=no

Read=no

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

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**Assignment No. 05**

**Name of Student:** Rupesh Ramesh Desai **Roll No. :**

**Class:** B.Sc III **Date: / /**

**Signature:**

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**Q. Write a shell script which copies files from one directory to another duringcopy command.**

**Program:**

ubuntu@ubuntu-desktop:~$ cd Documents

ubuntu@ubuntu-desktop:~/Documents$ mkdir B.Sc3

ubuntu@ubuntu-desktop:~/Documents$ cd B.Sc3

ubuntu@ubuntu-desktop:~/Documents/B.Sc3$ mkdir Rupesh

ubuntu@ubuntu-desktop:~/Documents/B.Sc3$ cd RupS

ubuntu@ubuntu-desktop:~/Documents/B.Sc3/Rupesh$ cat>student

Aniket

Mamata

Sandesh

Pranali

Vaidehi

Swati

Snehal

ubuntu@ubuntu-desktop:~/Documents/B.Sc3$ mkdir RupS

ubuntu@ubuntu-desktop:~/Documents/B.Sc3$ cd RupS

ubuntu@ubuntu-desktop:~/Documents/B.Sc3/ RupS $ cat>languages

Java

Python

Cpp

Asp.net

C#

ubuntu@ubuntu-desktop:~$ cp Documents/B.Sc3/Pranali/student Documents/B.Sc3/ RupS /languages

ubuntu@ubuntu-desktop:~$ cd Documents

ubuntu@ubuntu-desktop:~/Documents$ cd B.Sc3

ubuntu@ubuntu-desktop:~/Documents/B.Sc3$ cd RupS

ubuntu@ubuntu-desktop:~/Documents/B.Sc3/ RupS $ cat languages

Aniket

Mamata

Sandesh

Pranali

Vaidehi

Swati

Snehal

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

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**Assignment No. 06**

**Name of Student:** Rupesh Ramesh Desai **Roll No. :**

**Class:** B.Sc III **Date: / /**

**Signature:**

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**Q. Write an awk program to display stock report with given format.**

**Program:**

jay manager account 45000

seema clerk account 25000

sunil manager sales 50000

anil manager account 20000

deepak clerk sale 23000

anita employee manager 22000

satvik director purchase 80000

sunita employee manager 21000

varun director purchase 79000

kavita employee manager 20000

amit peon sales 13000

sumit peon sales 14000

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*OUTPUT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

ubuntu@ubuntu-desktop:~$ vi as6.sh

ubuntu@ubuntu-desktop:~$ awk '{print}' as6.sh

jay manager account 45000

seema clerk account 25000

sunil manager sales 50000

anil manager account 20000

deepak clerk sale 23000

anita employee manager 22000

satvik director purchase 80000

sunita employee manager 21000

varun director purchase 79000

kavita employee manager 20000

amit peon sales 13000

sumit peon sales 14000

ubuntu@ubuntu-desktop:~$ awk '{print $1,$4}' as6.sh

jay 45000

seema 25000

sunil 50000

anil 20000

deepak 23000

anita 22000

satvik 80000

sunita 21000

varun 79000

kavita 20000

amit 13000

sumit 14000

ubuntu@ubuntu-desktop:~$ awk '/manager/{print $1}' as6.sh

jay

sunil

anil

anita

sunita

kavita

ubuntu@ubuntu-desktop:~$ awk '/employee/{print}' as6.sh

anita employee manager 22000

sunita employee manager 21000

kavita employee manager 20000

ubuntu@ubuntu-desktop:~$ awk 'length($0)>26' as6.sh

anita employee manager 22000

satvik director purchase 80000

sunita employee manager 21000

varun director purchase 79000

kavita employee manager 20000

ubuntu@ubuntu-desktop:~$ awk '{print NR,$0}' as6.sh

1 jay manager account 45000

2 seema clerk account 25000

3 sunil manager sales 50000

4 anil manager account 20000

5 deepak clerk sale 23000

6 anita employee manager 22000

7 satvik director purchase 80000

8 sunita employee manager 21000

9 varun director purchase 79000

10 kavita employee manager 20000

11 amit peon sales 13000

12 sumit peon sales 14000

ubuntu@ubuntu-desktop:~$ awk '/deepak/{print}' as6.sh

deepak clerk sale 23000

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

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**Assignment No. 07**

**Name of Student:** Rupesh Ramesh Desai **Roll No. :**

**Class:** B.Sc III **Date: / /**

**Signature:**

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**Q. Create a date file which contains given format and perform the given operations on that data file using sed.**

**Program:**

unix is great operating system

unix is open source

unix is free operating system

unix is easy

unix linux which one you select

unix is multiuser unix is powerful

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*OUTPUT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

ubuntu@ubuntu-desktop:~$ sed 's/unix/linux/1' as7.sh

linux is great operating system

linux is open source

linux is free operating system

linux is easy

linux linux which one you select

linux is multiuser unix is powerful

om@om-desktop:~/Documents/sed '1 s/unix/linux/' sed

linux is great operating system

unix is open source

unix is free operating system

unix is easy

unix linux which one you select

unix is multiuser unix is powerful

om@om-desktop:~/Documents/sed 's/unix/linux/p' sed

linux is great operating system

linux is great operating system

linux is open source

linux is open source

linux is free operating system

linux is free operating system

linux is easy

linux is easy

linux linux which one you select

linux linux which one you select

linux is multiuser unix is powerful

linux is multiuser unix is powerful

om@om-desktop:~/Documents/sed -n 's/unix/linux/p' sed

linux is great operating system

linux is open source

linux is free operating system

linux is easy

linux linux which one you select

linux is multiuser unix is powerful

om@om-desktop:~/Documents/sed '1,3 s/unix/linux/' sed

linux is great operating system

linux is open source

linux is free operating system

unix is easy

unix linux which one you select

unix is multiuser unix is powerful

om@om-desktop:~/Documents/sed '2d' sed

unix is great operating system

unix is free operating system

unix is easy

unix linux which one you select

unix is multiuser unix is powerful

om@om-desktop:~/Documents/sed '$d' sed

unix is great operating system

unix is open source

unix is free operating system

unix is easy

unix linux which one you select

om@om-desktop:~/Documents/sed '4,$d' sed

unix is great operating system

unix is open source

unix is free operating system

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

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**Assignment No. 08**

**Name of Student:** Rupesh Ramesh Desai **Roll No. :**

**Class:** B.Sc III **Date: / /**

**Signature:**

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

**Q. Write a shell script to copy a file using command line argument,source file must be exists and readable and target file must be non-existing file name.**

**Program:**

echo "Enter file name"

read XYZ

if [ $XYZ == 2 ]

then

echo "file $XYZ is exist"

exit 1

fi

if [ -f $1 ]

then

echo "No such file or directory exist"

exit 2

fi

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*OUTPUT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

ubuntu@ubuntu-desktop:~$ vi as8.sh

ubuntu@ubuntu-desktop:~$ sh as8.sh

Enter file name

Rupesh

file Rupesh is exit

ubuntu@ubuntu-desktop:~$ vi as8.sh

ubuntu@ubuntu-desktop:~$ sh as8.sh

Enter file name

Snehal

No such file or directory exist

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

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**Assignment No. 09**

**Name of Student:** Rupesh Ramesh Desai **Roll No. :**

**Class:** B.Sc III **Date: / /**

**Signature:**

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

**Q.Write a shell script,which works similar to wc command accept filename as command line argument.**

**Program:**

echo "enter the file name"

read ABC

echo "Number of lines in $ABC $(wc -l < $ABC)"

echo "Number of words in $ABC $(wc -w < $ABC)"

echo "Number of character in $ABC $(wc -c < $ABC)"

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*OUTPUT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

ubuntu@ubuntu-desktop:~$ cat>Students

Rupesh

Sandesh

snehal

mamata

vaidehi

Pranali

Kamlesh

shivani

ubuntu@ubuntu-desktop:~$ vi as9.sh

ubuntu@ubuntu-desktop:~$ sh as9.sh

enter the file name

Students

Number of lines in Students 8

Number of words in Students 8

Number of character in Students 56

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

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**Assignment No. 10**

**Name of Student:** Rupesh Ramesh Desai **Roll No. :**

**Class:** B.Sc III **Date: / /**

**Signature:**

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**Q. Accept any word through command line argument and find out its length.**

**Program:**

echo "Enter the string"

read string

length=$(expr length $string)

echo "Length of the string is $length"

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*OUTPUT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

ubuntu@ubuntu-desktop:~$ vi as10.sh

ubuntu@ubuntu-desktop:~$ sh as10.sh

Enter the string

Rupesh

Length of the string is 7

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