**Lab 3**

**Q1 Commands**

1 cat \*.txt

2 sensible - browser

3 grep -v <filename>

4 gzip \*.dat

5 ls -a

6 ls -R

7 export

8 sort -r

9 ln myfile.txt <currenct folder path>

10 grep [options] pattern <filename>

**Q2 Codes**

**1.**

echo Enter the first variable

read n1

echo Enter the second variable

read n2

echo Addition

echo `expr $n1 + $n2`

echo Subtraction

echo `expr $n1 - $n2`

echo Multiplication

echo `expr $n1 \\* $n2`

echo Division

echo `expr $n1 / $n2`

echo Modulo

echo `expr $n1 % $n2`

**2.**

echo The addition is `expr $1 + $2`

echo The multiplication is `expr $1 \\* $2`

echo The division is `expr $1 / $2`

echo The modulo is `expr $1 % $2`

echo The subtraction is `expr $1 - $2`

**3.**

echo Enter the first variable

read n1

echo Enter the second variable

read n2

echo Enter the arithmetic operation you wish to perform

read n

case $n in

+)echo `expr $n1 + $n2 `;;

\*)echo `expr $n1 \\* $n2 `;;

/)echo `expr $n1 / $n2 `;;

%)echo `expr $n1 % $n2 `;;

-)echo `expr $n1 - $n2 `;;

esac

**4.**

echo Enter the first number to compare

read n

echo Enter the second number

read n1

if [ $n -gt $n1 ]

then

echo $n is greater than $n1

elif [ $n -lt $n1 ]

then

echo $n is lessthan $n1

else

echo Both are equal

fi

**5.**

while [ 1 ]

do

echo Enter a number

read n

if [ $n -lt 50 ]

then

echo `expr $n \\* $n `

else

echo Enter another number less than 50

fi

done

**6.**

echo Enter the command to be exectued

read comm

$comm

**7.**

c=1

while [ $c = 1 ]

do

echo Enter a string like January

read str

str2='Jan'

str3='Janu'

str4='Janua'

str5='January'

str1='quit'

if [ $str = $str1 ]

then

c=0

elif [ $str = $str2 ]

then

echo January

elif [ $str = $str3 ]

then

echo January

elif [ $str = $str4 ]

then

echo January

elif [ $str = $str5 ]

then

echo January

else

echo Enter another string

fi

done

**8.**

n1=0

n2=1

cnt=2

echo Enter the number of numbers till you want the fibonacci series

read n3

echo $n1

echo $n2

while [ $cnt -le $n3 ]

do

echo `expr $n1 + $n2`

n4=`expr $n1 + $n2`

n1=$n2

n2=$n4

cnt=`expr $cnt + 1`

done

**9.**

c=1

while [ $c = 1 ]

do

echo Enter the capital of Gujarat

read str

str1='Gandhinagar'

if [ $str = $str1 ]

then

c=0

else

echo Enter the correct capital of Gujarat

fi

done

**10.**

echo Enter the number to be checked

read n1

array\_num=( '1' '11' '25' '67' '50')

for (( i=0; i <= 4; i++ ))

do

if [ $n1 = ${array\_num[i]} ]

then

echo the num is present at position $i

exit

fi

done

if [ $i -eq 5 ]

then echo number not found

fi