1)Write a shell script to print the characters of an input string into reverse order.

**Code:**

echo "Enter the String"

read STRING

echo $STRING | rev

1. **Write a shell script to find out the location of an input character into an input string.**

**Code:**

echo "Enter the Stirng"

read STRING

echo "Enter Charater "

read CHAR

awk -v a="$STRING" -v b="$CHAR" 'BEGIN{print "The Location is :" index(a,b)}'

**3)Write a shell script to remove all words that occur more than once in a list.**

**About xargs command:**

****Xargs**** is a great command that reads streams of data from standard input, then generates and executes command lines; meaning it can take output of a command and passes it as argument of another command. If no command is specified, xargs executes echo by default. You many also instruct it to read data from a file instead of stdin.

**Code:**

echo "Enter the Stirng"

read STRING

echo "$STRING" | xargs -n1 | sort -u | xargs

**4)Write a shell script to take backup of all c files.**

**5)Write a program in UNIX to accept range of months and display calendar within that range.**

**6)To find out the greatest and smallest element of an array.**

**Code:**

echo "enter size of an array"

read n

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

do

echo " enter $((i+1)) number"

read nos[$i]

done

echo "number entered are"

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

do

echo ${nos[$i]}

done

small=${nos[0]}

greatest=${nos[0]}

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

do

if [ ${nos[$i]} -lt $small ];

then

small=${nos[$i]}

elif [ ${nos[$i]} -gt $greatest ];

then

greatest=${nos[$i]}

fi

done

echo "smallest number in an array is $small"

echo "greatest number in an array is $greatest"

**7)Write a shell script that takes a command-line argument and reports whether it is a directory, a file, or**

**something else.**

**Code:**

INPUT=$1

if [ -f $INPUT ]

then

echo "File"

elif [ -d $INPUT ]

then

echo "Directory"

else

echo "Something else"

fi

1. **Write a shell script to display a three digit number in English words.**

**9)Moving shell files from PWD to specified directory.**

**Code:**

echo "present working directory"

pwd

read TargetDir

ls

if [ -d $TargetDir ]

then

mv \*sh $TargetDir

else

mkdir $TargetDir

mv \*sh $TargetDir

fi

1. **To print all the files and total number of files in given directory.**

**Code:**

echo "Enter the Directory"

read DIR

if [ -d $DIR ]

then

cd $DIR

echo "Directory $DIR Files are:"

find -maxdepth 1 -type f

echo "Total Number of Files are : `find -maxdepth 1 -type f | wc -l`"

else

echo "Directory is Not Found"

fi

**11)Create a file containing a command which will delete all files in ˜/tmp/ when it is run. Make that script be run every 5secs.**