**Assignment 2\_Solution**

1. Write a script to create 10 directories, say a1,a2,...,a10

Report error if a directory/file exists with the same name.

$ mkdir a1 a2 a3 a4 a5 a6 a7 a8 a9 a10

2. Write a menu based script to perform following string operations

a) To find length of a string

${#strvar}

expr length $strvar

expr “${strvar}”:’.\*’

$strvar | wc -c

$strvar |awk '{print length}'

c) Copying string

#!/bin/ksh

A=' ABCDEF '

B='HHH'

A=" ${B}${A}"

echo "A->[${A}]"

d) Concatenation of strings

VAR1="Hello,"

VAR2=" World"

VAR3="$VAR1$VAR2"

echo "$VAR3"

e) Compare two strings

#!/bin/bash

VAR1="Linuxize"

VAR2="Linuxize"

if [ "$VAR1" = "$VAR2" ]; then

echo "Strings are equal."

else

echo "Strings are not equal."

fi

f) Reversing a string

$ echo welcome | rev

3.Write a shell script to rename all files in the current directory with numeric continuous value(Warning: Do this in a personal folder. Don't use Home directory)

rename oldname newname \*.files

4. Write a script that print environment variable(Print $HOME,$PATH,$SHELL,$HISTORY,$LOGNAME,$TERM)

echo "${HOME}"

echo "$PATH"

printf "$VARIABLE\_NAME\n"

printf "String %s" $VARIABLE\_NAME

printf "Signed Decimal Number %d" $VARIABLE\_NAME

printf "Floating Point Number %f" $VARIABLE\_NAME

echo $TERM

export TERM=vt100

5. Write a shell script to print all files permissions in current directory(Not name or other details)(Use cut commands)

$ chmod 755 testfile

$ls -l testfile

-rwxr-xr-x 1 amrood users 1024 Nov 2 00:10 testfile

6. Write a shell script to print all files permissions and name of file

echo "The list of File Names in the curent directory."

echo "Which have Read,Write and Execute permisions. "

for file in \*

do

if [ -f $file ]

then

if [ -r $file -a -w $file -a -x $file ]

then

ls -l $file

fi

fi

done

7.Write a shell script to print all files name and size greater than 5K

find -type f -name "\*.sh" -size +5k