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

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

for ((i=1;i<=10;i++))

do

mkdir a$i

done

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

a) To find length of a string

c) Copying string

d) Concatenation of strings

e) Compare two strings

f) Reversing a string

echo "Enter first string: "

read str1

echo "enter second string:"

read str2

echo "enter choice:"

read NUM

case $NUM in

1) echo "length of the strings are:"

echo "${#str1}"

echo "${#str2}";;

2) echo "concatenate of the strings are:"

str3="$str1$str2"

echo $str3 ;;

3) echo "copy string is:"

strcopy="$str1"

echo $strcopy ;;

4) echo "string comparison is:"

if [ $str1 = $str2 ]

then

echo "Both string are same";

else

echo "Both string are not same";

fi;;

5) echo "reverse of the string 1:"

echo $str1 | rev;;

\*) echo "INVALID NUMBER!" ;;

esac

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)

for ((i=1;i<=10;i++))

do

mv a$i new$i

done

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

echo "$HOME"

echo "$PATH"

echo "$SHELL"

echo "$HISTORY"

echo "$LOGNAME"

echo "$TERM"

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

-$ls –ls | cut –b 1-10

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

-$ls -l | awk '{print $1 " " $9}'

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

1. Write a script To check given year is leap or not.

#/bin/sh

echo "enter a year"

read year

if [ `expr $year % 4` -eq 0 ]; then

if [ `expr $year % 100` -eq 0 ]; then

if [ `expr $year % 400` -eq 0 ]; then

echo "$year is a leap year"

else

echo "$year is not a leap year"

fi

else

echo "$year is a leap year"

fi

else

echo "$year is not a leap year"

fi

exit 0

2. Write a script to print day of the week using

a) elif

echo "enter a number"

read n

if [ $n == 1 ]; then

echo "Monday"

elif [ $n == 2 ]; then

echo "Tuesday"

elif [ $n == 3 ]; then

echo "Wednesday"

elif [ $n == 4 ]; then

echo "Thursday"

elif [ $n == 5 ]; then

echo "Friday"

elif [ $n == 6 ]; then

echo "Saturday"

elif [ $n == 7 ]; then

echo "Sunday"

else

echo "Please enter weekday number between 1-7."

fi

b) case

echo "enter a number"

read n

case $n in

1) echo "Sunday" ;;

2) echo "Monday" ;;

3) echo "Tuesday" ;;

4) echo "Wednesday" ;;

5) echo "Thursday" ;;

6) echo "Friday" ;;

7) echo "Saturday" ;;

\*) echo "enter value between 1 to 7" ;;

esac

3. a) Write a script to find biggest of three no.s

echo "Enter The numbers"

read a

read b

read c

if [ $a -gt $b -a $a -gt $c ]; then

echo "$a is biggest number"

elif [ $b -gt $a -a $b -gt $c ]; then

echo "$b is biggest number"

elif [ $c -gt $a -a $c -gt $b ]; then

echo "$c is biggest number"

fi

b) To find avg of 3 no.s, read no.s from keyboard

echo "Enter The numbers"

read a

read b

read c

sum=`expr $a + $b + $c`

avg=`expr $sum / 3`

echo "average of three numbers = $avg"

4. Write a program to check wahether given no.is even or odd

#! bin/bash

#even\_odd

echo "enter the number to check"

read n

if [ $(( $n % 2 )) -eq 0 ]

then

echo "no is even"

else

echo "no is odd"

fi

exit 0

5. Write a program to print calendar of current month in next year,previous years.

For eg:-sep 2014,sep 2012 if current month is sep 2013

echo "Enter Month"

read m

echo "Enter Year"

read y

cal -3 $m $y

6. Write a program to find sum and product of two no.s using

a) let

echo "Enter first number"

read a

echo "Enter second number"

read b

let c=a+b

echo "Sum with let = $c"

let d=a\*b

echo "multiplication with let = $d"

b)expr

sum=`expr $a + $b`

echo "Sum with expr = $sum"

mul=`expr $a \* $b`

echo "mul with expr = $mul"

c)bc

echo "$a + $b" | bc

echo "$a \* $b" | bc

7. Write a script to generate Fibonacci series.

echo "Program to Find Fibonacci Series"

echo "How many number of terms to be generated ?"

read n

x=0

y=1

i=2

echo "Fibonacci Series up to $n terms :"

echo "$x"

echo "$y"

while [ $i -lt $n ]

do

i=`expr $i + 1 `

z=`expr $x + $y `

echo "$z"

x=$y

y=$z

done

8. Write a shell script to reverse the single strings.

echo "Enter String"

read str

echo $str | rev

9.Write a shell script to reverse the list of strings and reverse each string further in the list.

echo “enter no of string:”

read n

for((i=1;i<=$n;i++))

do

read str

done

for((i=$n;i>=1;i--))

do

echo $str | rev

done

10. Write a shell script to print the reverse of an input number.

#! bin/bash

#reverse of a number

echo "enter a number"

read num

let input=num

reverse=0

while [ $input -gt 0 ]

do

let reverse=reverse\*10

let reverse=reverse+input%10

let input=input/10

done

echo "reverse of $num is $reverse"

exit 0

1.Write a shell script to validate password strength. Here are a few assumptions for the password string.

Length – minimum of 8 characters.

Contain both alphabet and number.

Include both the small and capital case letters.

If the password doesn’t comply with any of the above conditions, then the script should report it as a <Weak Password>.