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**

**if [ -d "a$i" ]**

**then**

**echo "Directory already exist!!!"**

**else**

**mkdir "a$i"**

**fi**

**done**

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

a) To find length of a string

**echo "enter the string"**

**read string**

**len=${#string}**

**echo $len**

c) Copying string

**read string**

**copystring=$string**

**echo "copied string ="$copystring**

d) Concatenation of strings

**read string1**

**read string2**

**string3="$string1 $string2"**

**echo $string3**

e) Compare two strings

**read string1**

**read string2**

**if [ $string1 == $string2 ] ; then**

**echo "strings are equal"**

**else**

**echo "strings are not equal"**

**fi**

f) Reversing a string

**read string1**

**echo $string1 |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)

**for ((i=0 ; i<=10 ; i++))**

**do**

**mv "a$i" "b$i"**

**done**

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

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

**ls -la | cut -b 1-12**

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

**ls -la**

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.

**read year**

**if [[ $((year%4))==0 || $(year%100)==0 && $(year%400)==0 ]] ; then**

**echo "leap year"**

**else**

**echo "not a leap year"**

**fi**

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 "satday"**

**elif [[ $n == 7 ]] ; then**

**echo "sunday"**

**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" ;;**

**esac**

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

**read a**

**read b**

**read c**

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

**echo "a is greater"**

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

**echo "b is greater"**

**else**

**echo "c is greater"**

**fi**

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

**read a**

**read b**

**read c**

**sum=$((a+b+c))**

**avg=$((sum/3))**

**echo $avg**

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

**read a**

**rem=$((a%2))**

**if [ $rem == 0 ] ; then**

**echo "even"**

**else**

**echo "odd"**

**fi**

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

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

a) let

**let "a=2" "b=3" c="a+b" d="a\*b" ;**

**echo $c**

**echo $d**

b)expr

**read x**

**read y**

**sum=`expr $x + $y`**

**product=`expr $x \\* $y`**

**echo $sum**

**echo $product**

c)bc

**read a**

**read b**

**echo $((a+b)) | bc**

**echo $((a\*b)) | bc**

7. Write a script to generate Fibonacci series.

**read N**

**a=0**

**b=1**

**echo "The Fibonacci series is : "**

**for (( i=0; i<N; i++ ))**

**do**

**echo -n "$a "**

**fn=$((a + b))**

**a=$b**

**b=$fn**

**done**

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

**echo "Enter The 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.

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

**echo "Enter a number: "**

**read num**

**echo $num | rev**

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>.