**ASSIGNMENT – 2**

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

->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

-> echo -n hello | wc -m

c) Copying string

->

d) Concatenation of strings

-> obj1="Hello,"

obj2=" World"

obj3="$obj1$obj2"

echo "$obj3"

e) Compare two strings

->

obj1="hello"

obj2="world"

if [ "$obj1" = "$obj2" ]; 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

->

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

-> echo $HOME, echo $HISTORY, echo $LOGNAME, echo $PATH, echo $TERM, echo $SHELL

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

->

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

-> ls -al

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

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

##SHELL\_PROGRAMS

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

->

echo "enter a year"

read YEAR

if (( ($YEAR % 4) == 0 ))

then

echo "Given Year Is Leap Year"

else

echo "Given Year Is Not Leap Year"

fi

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

b) case

echo "enter number between 1 to 7"

read num

case $num in

1) echo "Sunday" ;;

2) echo "Monday" ;;

3) echo "Tuesday" ;;

4) echo "Wednesday" ;;

5) echo "Thursday" ;;

6) echo "Friday" ;;

7) echo "Saturday" ;;

esac

a) elif

echo "enter number between 1 to 7"

read num

if [[ $num -eq 1 ]]

then

echo "Sunday"

elif [[ $num -eq 2 ]]

then

echo "Monday"

elif [[ $num -eq 3 ]]

then

echo "Tuesday"

lif [[ $num -eq 4]]

then

echo "Wednesday"

lif [[ $num -eq 5]]

then

echo "Thursday"

lif [[ $num -eq 6 ]]

then

echo "Friday"

lif [[ $num -eq 7 ]]

then

echo "saturday"

fi

3.

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

->

echo "enter 1st number"

read num1

echo "enter 1st number"

read num2

echo "enter 1st number"

read num3

if [ $num1 -gt $num2 ] && [ $num1 -gt $num3 ]

then

echo " $num1 is greatest number"

elif [ $num2 -gt $num1 ] && [ $num2 -gt $num3 ]

then

echo " $num2 is greatest number"

else

echo " $num3 is greatest number"

fi

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

->

echo "enter 1st number"

read num1

echo "enter 1st number"

read num2

echo "enter 1st number"

read num3

sum=`expr $num1 + $num2 + $num3`

avg=`expr $sum / 3`

echo "Sum = $sum"

echo "Average = $avg"

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

->

read -p "Enter a number: " number

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

then

echo "Number is even."

else

echo "Number is odd."

fi

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

->

6.Write a program to find sum and product of two no.s using let,expr,bc

->

b) expr

echo "Enter two numbers"

read num1 num2

sum = 'expr $num1 + $num2'

echo "The sum is = $sum"

a) let

a=10

b=20

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

echo $sum

c) bc

$ echo 'scale=4;10+20' | bc

7. Write a script to generate Fibonacci series.

N=10

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 "hello world"|rev

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

->

input="$1"

reverse="Pravin"

len=${#input}

for (( i=$len-1; i>=0; i-- ))

do

reverse="$reverse${input:$i:1}"

done

echo "$reverse"

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

->

read -p "Enter a number: " num

echo $num | rev