echo '3.Concate of string' echo '4.compare to sring' echo '5.Reverse string'read str1read optioncase $option in 1) echo ${#str1} ;; 2) str2=$str1 echo $str2 ;; 3)str2="Mahajan" echo $str1$str2 ;; 4) str2="Meghana" if [ $str1 == $str2 ] then echo "Equal" else echo "Not equal" fi ;; 5) echo $str1 | rev ;;

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

str="Rupali"

len=${#str}

echo "length $len"

chmod 777 string.txt

./string.txt

echo enter a string :read strl=`expr length $str`echo Length of $str

c) Copying string

a='Rupali'

b="${a}"

echo "${b}"

d) Concatenation of strings

a='Hello'

b='Rupali'

c="${a}${b}"

echo "${c}"

e) Compare two strings

var1="Rupali"

var2="Rupal"

if [ "$var1" = "$var2" ]; then

echo "E"

else

echo "N"

fi

f) Reversing a string

**echo** "nixcraft" **|** **rev**

input="$1"

reverse=""

len=${#input}

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

**do**

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

**done**

**echo** "$reverse"

x="welcome"

len=`echo ${#x}`

while [ $len -ne 0 ]

do

y=$y`echo $x | cut -c $len`

((len--))

done

echo $y

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)

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)

<https://www.geeksforgeeks.org/permissions-in-linux/>

ls- l

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

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

For **ls -X A** or **ls -X a**, the display format is:

Attributes: *attributelist*

where *attributelist* is a comma-separated list of one or more of:

|  |  |
| --- | --- |
| **Verbose** | **Terse** |
| Archive | A |
| Compressed | C |
| Directory | D |
| Encrypted | E |
| Hidden | H |
| Normal | N |
| Offline | O |
| ReparsePoint | R |
| ReadOnly | RO |
| Sparse | SP |
| System | S |
| Temporary | T |

For **ls -X D** or **ls -X d**, the display format is:

ACE: *perm usergrpname ace\_flags accessmode*

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

- echo "Enter number to check whether it is leap year or not"

read year

a=`expr $year % 4 | expr $year % 400 `

if test $a -eq 0

then

echo "$year is a leap Year"

else

echo "$year is not a leap year"

fi

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

a) elif b) case

--date -d "sep 8 2020" +%a

-- DAYOFWEEK=$(date +"%u")

echo "$DAYOFWEEK";

if [ "$DAYOFWEEK" == 1 ]; then exit; else echo; fi

if [ "$DAYOFWEEK" == 2 ]; then exit; else echo; fi

if [ "$DAYOFWEEK" == 3 ]; then exit; else echo; fi

if [ "$DAYOFWEEK" == 4 ]; then exit; else echo; fi

if [ "$DAYOFWEEK" == 5 ]; then exit; else echo; fi

if [ "$DAYOFWEEK" == 6 ]; then exit; else echo; fi

if [ "$DAYOFWEEK" == 7 ]; then exit; else echo; fi

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

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

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

echo "Enter Numbers"

read a

b=`expr $a % 2`

if test $b -eq 0

then

echo "$a Even Number"

else

echo "$a Odd Number"

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

b)expr

--- echo "Enter two Numbers"

read a

read b

c=`expr $a + $b`

d=`expr $a \\* $b`

echo "sum Of $a and $b : $c"

echo "Product of $a and $b : $d"

c)bc

7. Write a script to generate Fibonacci series.

echo "Enter n Numbers"

read n

a=0

b=1

i=0

sum=0

while [ $i -le $n ]

do

sum=$((a + b))

echo $sum

a=$b

b=$sum

sum=0

i=$((i + 1))

done

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

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.

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>.