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Assignment No - 02

**1. Write a shell script to add 4 numerals sent through command line arguments**.

Code:

echo "Enter a number:"

read n1

echo "Enter a number:"

read n2

echo "Enter a number:"

read n3

echo "Enter a number:"

read n4

sum=$((n1+n2+n3+n4))

echo "The sum of given 4 numerals are:"

echo $sum

**2. Write a shell script to print average of n numerals.**

Code:

echo "Enter the value of n:"

read n

for((i=0;i<n;i++))

do

echo "Enter number":

read num

sum=$((sum+num))

done

echo $sum

avg=$(echo $sum / $n)

echo $avg

**3. . Write script to sort n numbers in ascending order.**

Code:

arr=(100 82 20 120 32)

echo "Original Array:"

echo ${arr[\*]}

for ((i = 0; i<5; i++))

do

for((j = 0; j<5-i-1; j++))

do

if [ ${arr[j]} -gt ${arr[$((j+1))]} ]

then

temp=${arr[j]}

arr[$j]=${arr[$((j+1))]}

arr[$((j+1))]=$temp

fi

done

done

echo "Sorted Array:"

echo ${arr[\*]}

**4.Check if the number is prime and reverse it**

**5. Write a shell script to write the initials of any name given as input.**

Code:

echo "Enter name:"

read str1 str2

echo "Initials of the name are:"

echo "${str1:0:1} ${str2:0:1}"

**6. write a shell script that print the smallest digit of a given number.**

Code:

arr=(4 5 8 3)

min=${arr[0]}

echo '$min'

for((i=4;i>0;i--))

do

if [ ${arr[$i]} -le ${min} ]

then

min=${arr[$i]}

fi

done

echo 'Smallest number from above numbers are:'

echo $min

**7. Write a shell script to reverse the given number & find the sum of all the digits.**

Code:

echo "enter a number"

read n

rev=0 ;

rem=0

sum=0

while [ $n -gt 0 ]

do

rem=`expr $n % 10`

sum=$(($sum+$rem))

rev=`expr $rev \\* 10 + $rem`

n=`expr $n / 10`

done

echo "Reverse number is $rev"

echo "Sum of digits is $sum"

**8. Write a shell program for printing Fibonacci Series.**

Code:

echo "Enter the number of terms in Fibonacci Series"

read n

a=0

b=1

echo -n "$a $b "

for ((i=0;i<n-2;i++))

do

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

a=$(($b-$a))

echo -n "$b "

done

**9. Write a shell script that accepts the name of a user & prints the entered name in reverse & also prints the length of entered name.**

Code:

echo "Enter your name:"

read name

echo "$name" | rev

echo "Length of string is:"

echo ${#name}

**10. Print the pyramid of \*.**

Code:

MAX\_NO=0

echo -n "Enter Height of Pyramid: "

read MAX\_NO

for (( i=1; i<=MAX\_NO; i++ ))

do

for (( s=MAX\_NO; s>=i; s-- ))

do

echo -n " "

done

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

do

echo -n " \*"

done

echo ""

done

**11. Write a shell script to count the number of files in the current directory having the specified pattern.**

COUNT ONLY .txt FILES

PROGRAM: -

echo -n "Enter the pattern to be searched: "

read pat

echo "Following Files have the specified pattern:"

echo `grep -l $pat \*`

echo "Count: `grep -l $pat \* | wc -l`"

**12. Write a shell script that takes the first 3 lines from one file & the last 3 lines from the second file & stores them in a third file. The file names will be sent as command line arguments.**

Program: -

h=`head -n 3 $1`

t=`tail -n 3 $2`

h+=$t

echo $h > $3

**13. Write a shell script to display filename having maximum size in home directory.**

Program: -

echo `du | sort -nr | head -n 1

**14. `Write a shell script to count the number of files in the current directory beginning with a specified character.**

Program: -

echo "Write the character"

read n

echo `ls $n\*`

echo `ls $n\* | wc -l`

**15. Write a shell script to show all the files in the current directory whose name begins & ends with a vowel.**

Program: -

echo `ls [aeiou]\*[aeiou]`

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