

1. Write a shell script program to display “HELLO WORLD”.
2. Write a Program to Find Factorial of Number.
3. Write a shell script to find the largest among the 3 given numbers
4. Write a shell script program to develop a calculator.
5. Write a shell script to find how many terminals has this user logged in
6. Write a shell script to find reverse of a file.
7. Write a shell Script program to check whether the given number is even or odd.
8. Shell script program to check whether given file is a directory or not.
9. Shell script program to count number of files in a Directory.
10. write a shell script to reverse a number

1. Write a shell script program to display “HELLO WORLD”.

```
#!/bin/bash
# My first script

echo "Hello World!"
```

2. Write a Program to Find Factorial of Number

```
echo "Enter the no"
read fact

ans=1
counter=0
while [ $fact -ne $counter ]
do
    counter=`expr $counter + 1`
    ans=`expr $ans \* $counter`
done
echo " Factorial is $ans"
```

output

```
Enter the no
5
Factorial is 120
```

3. Write a shell script to find the largest among the 3 given numbers

```
echo Enter 3 numbers with spaces in between
read a b c
l=$a
if [ $b -gt $l ]
then
l=$b
fi
if [ $c -gt $l ]
then
l=$c
fi
echo Largest of $a $b $c is $l
```

4. Write a shell script program to develop a calculator.

```
clear
sum=0
i="y"

echo " Enter one no."
read n1
echo "Enter second no."
read n2
while [ $i = "y" ]
do
echo "1.Addition"
echo "2.Subtraction"
echo "3.Multiplication"
echo "4.Division"
echo "Enter your choice"
read ch
case $ch in
1)sum=`expr $n1 + $n2`
echo "Sum ="$sum;;
2)sum=`expr $n1 - $n2`
echo "Sub ="$sum;;
3)sum=`expr $n1 \* $n2`
echo "Mul ="$sum;;
4)sum=`expr $n1 / $n2`
echo "Div ="$sum;;
*)echo "Invalid choice";;
esac
```

```
echo "Do u want to continue ?"
```

```
read i
```

```
if [ $i != "y" ]
```

```
then
```

```
    exit
```

```
fi
```

```
done
```

OUTPUT

[04mca58@LINTEL 04mca58]\$ sh calculator.sh

Enter any no.

121

Enter one no.

21

Enter second no.

58

1.Addition

2.Subtraction

3.Multiplication

4.Division

Enter your choice

1

Sum =79

Do u want to continue ?

y

1.Addition

2.Subtraction

3.Multiplication

4.Division

Enter your choice

2

Sub = -37

Do u want to continue ?

y

1.Addition

2.Subtraction

3.Multiplication

4.Division

Enter your choice

3

Mul = 1218

Do u want to continue ?

y

1.Addition

2.Subtraction

3.Multiplication

4.Division

Enter your choice

4

Div = 0

Do u want to continue ?

n

5. Write a shell script to find how many terminals has this user logged in

```

if [ $# -eq 1 ]
then
    who>user.lst
    echo "$1 User is logeed at "
    grep -c $1 user.lst
else
    echo "Pls enter User Name"
fi

```

OUTPUT:

```

$ sh15 testuser
testuser User is logeed at 1

```

6. Write a shell script to reverse the contents of a file

```

if [ $# -eq 1 ]
then
    if [ -f $1 ]
    then
        a=`rev $1`
        echo "Reverse of $1"
        cat $1
        echo " is-> $a"
    else
        echo "File does not exist "
    fi
else
    echo "Please enter file name or path"
fi

```

OUTPUT:

```

$ sh35 wordfile1
Reverse of
apple
mango
banana
chicko
is-> elppa
ognam
ananab
okcihc
$ sh10 sh9

```

```
-rwxrwxrwx 1 root  Everyone  262 Dec  7 18:48 sh9
$ sh10 /etc
total 813
```

7. Write a shell Script program to check whether the given number is even or odd.

```
echo -n "Enter numnber : "

read n

rem=$(( $n % 2 ))

if [ $rem -eq 0 ]

then

    echo "$n is even number"

else

    echo "$n is odd number"

fi
```

8.Shell script program to check whether given file is a directory or not

```
echo -n "Please enter Directory name you wish to search: "
read dir

for filename in "/home/me/Desktop/$dir"/*

do

    if (-F $filename)
    then
        echo $filename

    fi

done
```

9.Shell script program to count number of files in a Directory.

```
#!/bin/sh
if [ -d "$@" ]
```

```
then
find "$@" -type f | ls -l "$@" | wc -l | echo "Number of files is $@"
find "$@" -type d | ls -l "$@" | wc -l | echo "Number of directories is $@"
fi
```

10. Shell program to reverse a number

```
if [ $# -eq 1 ]
then
    if [ $1 -gt 0 ]
    then
        num=$1
        sumi=0
        while [ $num -ne 0 ]
        do
            lnum=`expr $num % 10`
            sumi=`expr $sumi * 10 + $lnum`
            num=`expr $num \ / 10`
        done
        echo "Reverse of digits is $sumi of $1"
    else
        echo " Number is less than 0"
    fi
else
    echo "Insert only one parameter "
fi
```

output:

```
$ sh1 23456
Reverse of digits is 65432 of 23456
```