



SHELL SCRIPTING EXAMPLES

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A large, faint watermark of the Mithun Technologies logo is centered on the page. The logo consists of a stylized blue 'T' shape with a bird-like figure integrated into the top bar. The text 'Mithun Technologies' is written in a light blue, sans-serif font across the middle of the 'T' shape.

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Shell Scripting Examples

Shell script to enter name

```
echo "enter your name"
read name
echo "your name is $name"
```

Shell program to find even or odd number

```
echo "Enter a Number:"
read n
rem=$(( $n % 2 ))
if [ $rem -eq 0 ]
then
    echo "Number is even"
else
    echo "Number is odd"
```

Shell program to find year is leap year or not

```
echo "Enter a year:"
read n
rem=$(( $n % 4 ))
if [ $rem -eq 0 ]
then
    echo "year is leap year"
else
    echo "year is not leap year"
```

Shell program to reverse a number

```
echo "Enter a Number:"
read a
rev=0
sd=0
or=$a
while [ $a -gt 0 ]
do
    sd=`expr $a % 10`
    temp=`expr $rev \* 10`
    rev=`expr $temp + $sd`
    a=`expr $a / 10`
done
echo "Reverse of $or is $rev"
```

shell program to find sum of numbers

```
echo "Enter a Number:"
read n
temp=$n
sd=0
sum=0
while [ $n -gt 0 ]
do
    sd=$(( $n % 10 ))
    n=$(( $n / 10 ))
    sum=$(( $sum + $sd ))
done
```

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```
echo "Sum is $sum"
```

shell program to count no.of characters, lines and words in a file

```
echo Enter the filename
read filename
w=`cat $file | wc -w`
c=`cat $file | wc -c`
l=`grep -c "." $file`
echo Number of characters in $file is $c
echo Number of words in $file is $w
echo Number of lines in $file is $l
```

shell script to convert small letters into capital letters

```
echo Enter the filename
read filename
echo Contents of $filename after converting to uppercase
tr '[a-z]''[A-Z]' < $filename
```

shell script to find number is prime or not

```
echo -n "Enter a number: "
read num
i=2
while [ $i -lt $num ]
do
    if [ `expr $num % $i` -eq 0 ]
    then
        echo "$num is not a prime number"
        echo "Since it is divisible by $i"
        exit
    fi
    i=`expr $i + 1`
done
echo "$num is a prime number "
```

shell script to print numbers from 1 to 10

```
for (( i=1; i<=10; i++ ))
do
    echo "$i "
done
```

shell script to print numbers from 10 to 1

```
for (( i=10; i>=1; i-- ))
do
    echo -n "$i "
done
```

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shell script to print even numbers

```
echo "Enter Upper limit"
read n
$i = 2
while [$i -lt $n]
do
echo $i
expr ` $i=$i+2 `
done
```

shell script to find greatest of 3 numbers

```
echo "Enter three Integers:"
read a b c
if [ $a -gt $b -a $a -gt $c ]
then
    echo "$a is Greatest"
elif [ $b -gt $c -a $b -gt $a ]
then
    echo "$b is Greatest"
else
    echo "$c is Greatest!"
fi
```

shell program to print numbers in triangle

```
for (( i=1; i<=5; i++ ))
do
    for (( j=1; j<=i; j++ ))
    do
        echo -n "$j"
    done
    echo ""
done
```

output:-

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

Shell script to print triangle of numbers

```
for (( i=1; i<=5; i++ ))
do
    for (( j=1; j<=i; j++ ))
    do
        echo -n "$i"
    done
    echo ""
done
```

Output:-

```
1
2 2
```

3 3 3
4 4 4 4
5 5 5 5 5

Shell script to print triangle of stars

```
for i in $(seq 0 4)
do
for j in $(seq $i -1 0)
do
    echo -n "*"
done
echo
done
```

output:-

```
*
* *
* * *
* * * *
```

shell script to swap 2 numbers

```
echo "enter two numbers:"
read a
read b
echo "Before swapping, a=$a and b=$b"
z=$a
a=$b
b=$z
echo "After swapping, a=$a and b=$b"
```

shell script to find file is empty or not

```
echo "enter any file"
read file
if [ -s "$file" ]
then
    echo "$file has some data."
else
    echo "$file is empty."
fi
```

shell script to reverse a string

```
read -p "Enter string:" hello
len=${#string}
for (( i=$len-1; i>=0; i-- ))
do
reverse="$reverse${string:$i:1}"
done
```

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echo "\$reverse"