Loops in shell

I=1

Echo $i

I=2

Echo $i

1. For loop

Example 1

* For ((i=1;i<=10;i++))

{

Echo $i

}

Example 2

cat loop1

echo "for loop example"

for((i=1;i<=10;i++))

{

echo -e "$i \c"

}

Example 3: read the marks of 5 subjects in to an array marks.

cat loop1

echo "for loop example"

for((i=0;i<=4;i++))

{

read mark[i]

}

echo "the marks are"

echo ${mark[\*]}

ii) for i in 10 20 39 40 59 60 70 80 90

do

echo $i output: 10 20 30 40 50 60.. 90

don

example:

find the sum of all values passed as command line argument.

cat loop2

for i in 100 200 300 400 500 600

do

echo $i

done

echo "----------------------------"

for w in delhi noida mumbai raipur nagpur

do

echo $w

done

echo $1

echo $4

echo $\*

sum=0

for x in $\*

do

sum=`expr $sum + $x`

done

echo "sum is $sum"

While loop..

While [condition]

Do

Stmts

Done

Example print I value from 1 to 10

i=1

while [ $i –le 10 ]

do

echo $i

i=`expr $i + 1`

done

Example

WSS to find the factorial of a given number read by the user.

Q. num=3467219078634

1-3

3-6

5-2

7-9

cat loop4

echo "enter a number"

read num

len=`echo -n $num|wc -c`

echo $len

i=1

while [ $i -le $len ]

do

x=`echo $num|cut -c$i`

echo $x

i=`expr $i + 2`

done

Q. Write SS to read a number from user. User can enter a digit to know the occurrence in the number.

7868968768

8

8 occurs 4 times

cat loop4

echo "enter a number"

read num

echo "enter a digit"

read d

len=`echo -n $num|wc -c`

echo $len

ctr=0

i=1

while [ $i -le $len ]

do

x=`echo $num|cut -c$i`

if [ $d -eq $x ]

then

ctr=`expr $ctr + 1`

fi

i=`expr $i + 1`

done

echo $ctr

1. Until loop