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**Ex No. 3a :  
 Shell Script – Reverse of Digit**Aim:

To write a Shell script to reverse a given digit using a looping statement.

Program:

echo "Enter a number"

read n

rev=0

while [ $n -gt 0 ]

do

rem=expr $n % 10

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

n=expr $n / 10

done

echo "Reversed number is $rev"

Sample Input and Output:

Run the program using the below command:

[REC@localhost ~]$ sh reverse.sh

Enter a number

1234

Reversed number is 4321

Result:

Thus, the shell script to reverse a given digit using a looping statement was successfully executed.  
  
**Ex No. 3b:  
 Shell Script – Fibonacci Series**Aim:

To write a Shell script to generate a Fibonacci series using a for loop.

Program:

echo "Enter number"

read n

a=0

b=1

echo "Fibonacci series"

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

do

echo "$a"

fn=$((a + b))

a=$b

b=$fn

done

Sample Input and Output:

Run the program using the below command:

[REC@localhost ~]$ sh indhu.sh

enter number

15

Fibonacci series

0

1

1

2

3

5

8

13

21

34

55

89

144

233

377

Result:

Thus, the shell script to generate a Fibonacci series using a for loop was successfully executed.