

Ex. no: 3a)

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Shell Script – Reverse of Digit

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

```
echo "enter the digit: "  
read num  
a=0  
while [ $num -ne 0 ]  
do  
    a=$((a*10+(num%10))  
    num=$((num/10))  
done  
echo "the reversed form is $a"
```

INPUT | OUTPUT :

```
Enter a number:  
123  
321
```

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Shell Script – Fibonacci Series

Aim:

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

Program:

```
echo "enter a limit: "  
read n  
x=0  
y=1  
echo $x  
for ((i=1;i<n;i++))  
do  
    echo $y  
    z=$y  
    y=$((x+y))  
    x=$z  
done
```

INPUT | OUTPUT :

```
enter number  
21  
Fibonacci Series  
0  
1  
1  
2  
3  
5  
8  
13  
21  
34  
55  
89  
144  
233  
377  
610  
987  
1597  
2584  
4181  
6765
```