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**Ex. No.: 3a)**

### **Shell Script – Reverse of Digit**

**Aim:**

To write a Shellscrip to reverse a given digit using looping statement.

**Program:**

```
echo " enter number " read n
rev=0
while [ $n -gt 0 ] do
d=`expr $n % 10`
rev=$(echo "$rev * 10 + $d" | bc) n=`expr $n / 10`
done echo $rev
```

**OUTPUT:-**

123

321

**Ex. No.: 3b)**

### **Shell Script – Fibonacci Series**

**Aim:**

To write a Shellscrip to generate a Fibonacci series using for loop.

**Program:**

```
echo "enter number" read n
a=-1
b=1
echo "fibonacci series" for((i=1;i<=$n;i++)) do
c=$(echo "$a + $b" | bc) echo $c
a=$b b=$c done
```

**OUTPUT:-**

21

fibonacci series 0

1

1

2

3

5

8

13

21

34

55

89

144

233

377