

Ex. No. 3 (a)	SHELL SCRIPT – REVERSE OF DIGIT
Date: 31.01.2025	

Aim:

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

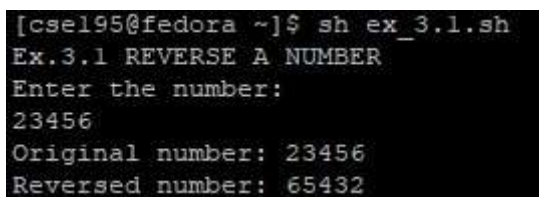
Program:

```
echo "Enter a number:"
read num

rev=0

while [ $num -gt 0 ] do
digit=$((num % 10))
rev=$((rev * 10 + digit))
num=$((num / 10))
done

echo "Reversed Number: $rev"
```

Output:

```
[cse195@fedora ~]$ sh ex_3.1.sh
Ex.3.1 REVERSE A NUMBER
Enter the number:
23456
Original number: 23456
Reversed number: 65432
```

Result:

Hence, the Shell Script to reverse the given digit was executed successfully.

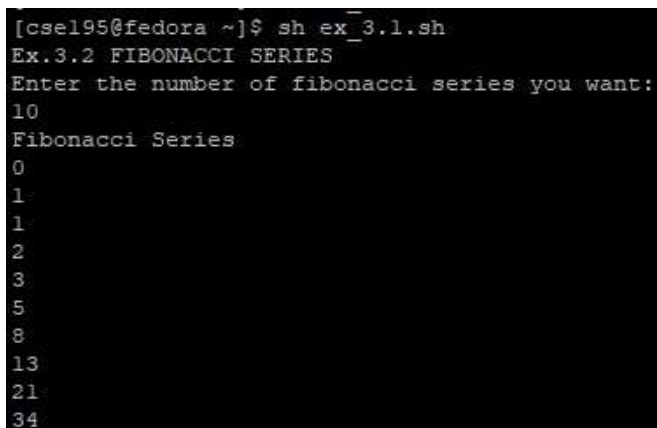
Ex. No. 3 (b)	SHELL SCRIPT – FIBONACCI SERIES
Date: 31.01.2025	

Aim:

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

Program:

```
echo "Enter the number of fibonacci series you want: "  
read num  
a=0  
b=1  
echo "Fibonacci Series"  
  
for ((i = 1; i <= num; i++)); do  
    echo "$a"  
    c=$a  
    a=$b  
    b=`expr $c + $b`  
done
```

Output:

```
[cse195@fedora ~]$ sh ex_3.1.sh  
Ex.3.2 FIBONACCI SERIES  
Enter the number of fibonacci series you want:  
10  
Fibonacci Series  
0  
1  
1  
2  
3  
5  
8  
13  
21  
34
```

Result:

Hence, the Shell Script to check leap year was executed successfully.