

**Ex. No: 3a**  
**Date: 28/1/25**

## Shell Script – Reverse of Digit

### AIM:

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

### PROGRAM:

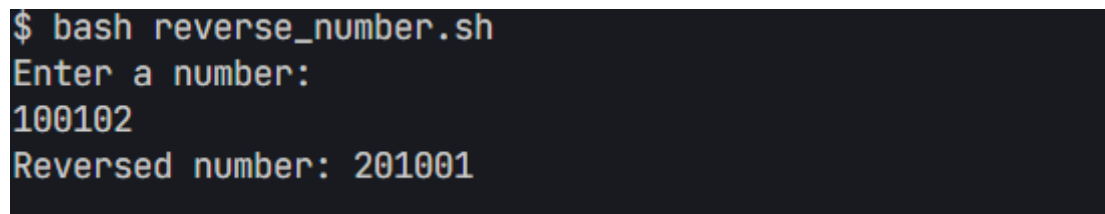
```
#!/bin/bash

read -p "Enter a number: " num

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

echo "Reversed number: $reverse"
```

### OUTPUT:



```
$ bash reverse_number.sh
Enter a number:
100102
Reversed number: 201001
```

### RESULT:

Thus, the shell script to reverse a given digit is successfully implemented.

Ex no: 3b

## Shell Script – Fibonacci Series

### AIM:

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

### PROGRAM:

```
#!/bin/bash

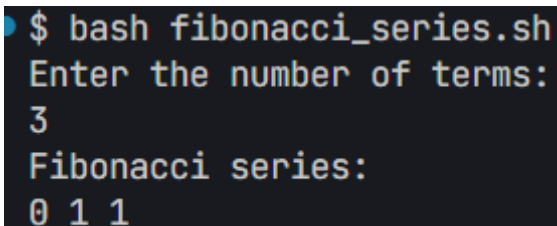
read -p "Enter the number of terms: " n

a=0
b=1

echo "Fibonacci Series:"
for (( i=0; i<n; i++ ))
do
    echo -n "$a "
    temp=$((a + b))
    a=$b
    b=$temp
done

echo
```

### OUTPUT



```
$ bash fibonacci_series.sh
Enter the number of terms:
3
Fibonacci series:
0 1 1
```

### RESULT:

Thus, the Shell Script to generate the Fibonacci series is successfully implemented.