Ex. No.: 3a)

Date:29-01-2025

<center>**Shell Script – Reverse of Digit**</center>

Aim:

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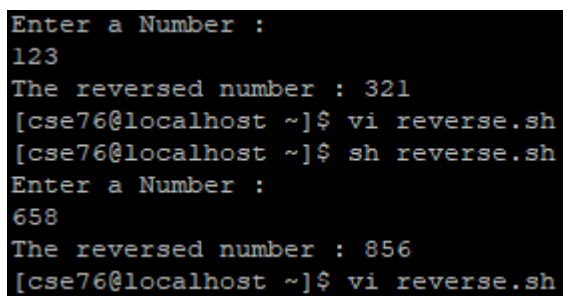
Program:

```
echo "Enter a Number :"
read n

r=0

while [ $n -gt 0 ]
do
   d=`expr $n % 10`
   r=`expr $r \* 10 + $d`
   n=`expr $n / 10`
done

echo "The reversed number : $r"
```

Result :

```
Enter a Number :
123
The reversed number : 321
[cse76@localhost ~]$ vi reverse.sh
[cse76@localhost ~]$ sh reverse.sh
Enter a Number :
658
The reversed number : 856
[cse76@localhost ~]$ vi reverse.sh
```

Ex. No.: 3b)

Date:29-01-2025

Shell Script – Fibbonacci Series

Aim:

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

Program:

```
echo "Enter the Number :"
read n
a=0
i=0
b=1
i=0

while [ $i -lt $n ]
do
c=` expr $a + $b `
echo " $a "
a=$b
b=$c
i=` expr $i + 1 `

done
```

Result :

```
[cse76@localhost ~]$ sh fib.sh
Enter the Number :
5
 0
 1
 1
 2
 3
[cse76@localhost ~]$ sh fib.sh
Enter the Number :
21
 0
 1
 1
 2
 3
 5
 8
 13
 21
 34
 55
 89
 144
 233
 377
 610
 987
 1597
 2584
 4181
 6765
```