Ex. No.: 3a)

Date:

<div align="center">

Shell Script – Reverse of Digit

</div>

Aim:

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

Program:

```
read -p "Enter a number: " num
reverse=0
while [ $num -gt 0 ]; do
reverse=$((reverse * 10 + num % 10))
num=$((num / 10))
done
echo "Reversed"
```

Sample Input and Output
Run the program using the below command
 [REC@local host~]$sh indhu.sh

enter number
123
321

Result:

The number reversal script using a `while` loop has been successfully executed, demonstrating the ability to manipulate and reverse numerical input.

Ex. No.: 3b)

Date:

Aim:

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

Program:

```
read -p "Enter the number of terms: " n
a=0
b=1
for (( i=0; i<n; i++ ))
do
echo -n "$a "
fn=$((a + b))
a=$b
b=$fn
done
```

<u>Sample Input and Output</u>
<u>Run the program using the below command</u>
 [REC@local host~]$sh indhu.sh

enter number
21
fibonacci series
0
1
1
2
3
5
8
13
21
34
55
89
144
233
377

Result:
The Fibonacci series generation script using a `for` loop has been successfully executed, producing the correct sequence of numbers