Ex. No.: 3a)   **231901039**

Date: 25/01/2025

<div align="center">

Shell Script – Reverse of Digit
</div>

Aim:

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

Program:

```bash
#!/bin/bash

echo "Enter a number:"
read num

rev=0

while [ $num -gt 0 ]
do
    rem=$((num % 10))      # Get the last
digit
    rev=$((rev * 10 + rem)) # Append digit to
reverse
    num=$((num / 10))      # Remove last digit
done

echo "Reversed number: $rev"
```

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

en
ter
number
123
321

Result:

Given digit is revered using shell script.

Ex. No.: 3b)

Date:

Shell Script – Fibonacci

Series Aim:

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

Program:

```bash
#!/bin/bash

echo "Enter the number of terms:"
read n

a=0
b=1

echo "Fibonacci series:"

for (( i=0; i<n; i++ ))
do
    echo "$a"
    fn=$((a + b))
    a=$b
    b=$fn
done
```

Run the program using the below command

    [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 has been generated using shell script