Ex. No.: 3a) **Shell Script – Reverse of Digit**

Date:28.01.25

Aim:

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

Program:

```
echo “Enter a number”
read num
reverse=0
digit=0
while [ $num -gt 0 ]
do
        digit=$((num % 10))
        reverse=$((reverse  * 10 + digit))
        num=$((num / 10))
done
echo “$reverse”
```

Sample Input and Output

Run the program using the below command

[REC@local host~]$sh indhu.sh

enter number

123

321

Result:

Thus, the reverse a digit program has been successfully executed.

Ex. No.: 3b) **Shell Script – Fibbonacci Series**

Date:28.01.25

Aim:

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

Program:

```
echo "Enter a number”
read n
a=0
b=1
echo "Fibonacci Series"
echo -n "$a $b "
i=2
for i in $(seq 2 $((n-1)))
do
  fn=`expr $a + $b`
  echo -n "$fn "
  a=$b
  b=$fn
done

echo
```

Sample Input and Output

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

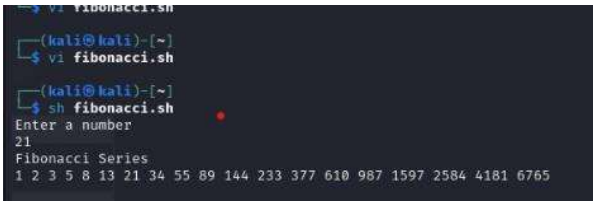
55

89

144

233

377



Result:

Thus, the Fibonacci program has been successfully executed.