

Ex. No.: 3a)

Date: 05-02-25

Shell Script – Reverse of Digit

Aim:

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

Program:

```
echo "ENTER A NUMBER!"
read number
reversed=0
while [ $number -gt 0 ]
do
    digit = $(($number % 10))
    reversed = $(($reversed * 10 + digit))
    number = $(($number / 10))
done
echo "The Reversed Number is $reversed"
```

Sample Input and Output

Run the program using the below command

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

enter number

123

321

ENTER A NUMBER

524

The Reversed number is 425

Result:

thus the shell script to reverse a given digit using looping statements has been executed successfully.



Ex. No.: 3b)

Date: 06-02-25

Shell Script – Fibonacci Series

Aim:

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

Program:

```
echo "ENTER A NUMBER"
```

```
read terms
```

```
a=0
```

```
b=1
```

```
echo "Fibonacci series!"
```

```
for (( i=0 ; i < terms ; i++ ))
```

```
do
```

```
echo -n "$a"
```

```
fib=$((a+b))
```

```
a=$b
```

```
b=$fib
```

```
done
```

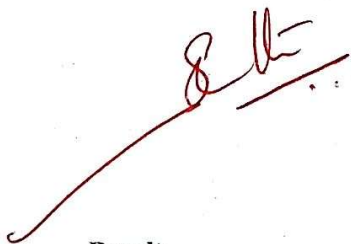
```
echo
```

Sample Input and Output

Run the program using the below command

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

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



Result:

Thus the shell script to generate Fibonacci series using for loop has been executed successfully.