

Ex. No.: 3a)

Date: 6.12.25

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 n
rev=0
while [ $n -gt 0 ];
do
    d=$(expr $n % 10)
    rev=$((echo "$rev" 10 + $d | bc))
    n=$(expr $n / 10)
done
echo $rev
```

Sample Input and Output

Run the program using the below command

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

enter number

123

321

OUTPUT:

Enter a Number:

4321

1234

Result:

A program is executed in shell script to display a reverse of a number.



Ex. No.: 3b)

Date: 6.2.25

Shell Script – Fibonacci Series

Aim:

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

Program:

```
echo "Enter number of turns"
```

```
read n
```

```
a = -1
```

```
b = 1
```

```
echo "Fibonacci series"
```

```
for (i=1; i ≤ $n; i++)
```

```
do
```

```
c = $ (echo "$ a+$b" | bc)
```

```
echo $c
```

```
a = $b
```

```
b = $c
```

```
done
```


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

Enter number of terms

6

Fibonacci series

0

1

1

2

3

5

Result:

A Shell Script program has been executed to print the Fibonacci Series.