

E x . N o . : 3 a)

NAME: T.R.DIVYASREE

Roll No. :230701083

Date:29-01-2025

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
```

```
r=0
```

```
while [ $n -gt 0 ]
```

```
do
```

```
    d=`expr $n % 10`
```

```
    r=`expr $r \* 10 + $d`
```

```
    n=`expr $n / 10`
```

```
done
```

```
echo "The reversed number : $r"
```

Result :

```
Enter a Number :  
123  
The reversed number : 321  
[cse76@localhost ~]$ vi reverse.sh  
[cse76@localhost ~]$ sh reverse.sh  
Enter a Number :  
658  
The reversed number : 856  
[cse76@localhost ~]$ vi reverse.sh
```

E x . N o . : 3 b)

NAME: T.R.DIVYASREE

Roll No. :230701083

Date:29-01-2025

Shell Script – Fibbonacci Series

Aim:

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

Program:

```
echo "Enter the Number :"
```

```
read n
```

```
a=0
```

```
i=0
```

```
b=1
```

```
i=0
```

```
while [ $i -lt $n ]
```

```
do
```

```
c=`expr $a + $b`
```

```
echo "$a"
```

```
a=$b
```

```
b=$c
```

```
i=`expr $i + 1`
```

```
done
```

Result :

```
[cse76@localhost ~]$ sh fib.sh
Enter the Number :
5
0
1
1
2
3
[cse76@localhost ~]$ sh fib.sh
Enter the Number :
21
0
1
1
2
3
5
8
13
21
34
55
89
144
233
377
610
987
1597
2584
4181
6765
```