

OS LAB MANUAL

(CS23431)

Lab:3

Roll No:230701246

1) Shell Script – Reverse of Dig

Aim: Reverse of Digit To write a Shell script to reverse a given digit using looping statement.

Program:

```
echo -n "Enter a number: "
read num
reverse=0
while [ $num -ne 0 ]
do
    digit=$((num % 10))
    reverse=$((reverse * 10 + digit))
    num=$((num / 10))
done
echo "Reversed number: $reverse"
```

input:

```
praveen@LAPTOP-Q0D806DB:~$ vi reverse.sh
praveen@LAPTOP-Q0D806DB:~$ sh reverse.sh
Enter a number: 248435|
```

Output:

```
praveen@LAPTOP-Q0D806DB:~$ vi reverse.sh
praveen@LAPTOP-Q0D806DB:~$ sh reverse.sh
Enter a number: 248435
Reversed number: 534842
```

2) Shell Script – Fibonacci Series

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

Program:

```
echo -n "Enter the number of terms for the Fibonacci series: "
read n
a=0
b=1
echo "Fibonacci series up to $n terms:"
for i in $(seq 1 $n)
do
    echo -n "$a "
    temp=$((a + b))
    a=$b
    b=$temp
done
echo
```

Input:

```
praveen@LAPTOP-Q0D806DB:~$ vi fibo.sh
praveen@LAPTOP-Q0D806DB:~$ sh fibo.sh
Enter the number of terms for the Fibonacci series: 6|
```

Output:

```
praveen@LAPTOP-Q0D806DB:~$ vi fibo.sh
praveen@LAPTOP-Q0D806DB:~$ sh fibo.sh
Enter the number of terms for the Fibonacci series: 6
Fibonacci series up to 6 terms:
0 1 1 2 3 5
```